



OIPE

Does Not Comply  
Corrected Diskette Needed

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/092,900

DATE: 11/01/2002

TIME: 12:24:29

Input Set : N:\EBONY'S\EP.txt

Output Set: N:\CRF4\11012002\J092900.raw

See also pp. 85, 86,  
87 &  
Other errors

1 <110> APPLICANT: Padigaru, Muralidhara  
2 Spytek, Kimberly A.  
3 Shenoy, Suresh G.  
4 Taupier Jr., Raymond J.  
5 Pena, Carol E.A.  
6 Li, Li  
7 Zerhusen, Bryan D.  
8 Gusev, Vladimir Y.  
9 Ji, Weizhen  
10 Gorman, Linda  
11 Miller, Charles E.  
12 Kekuda, Ramesh  
13 Patturajan, Meera  
14 Gangolli, Esha A.  
15 Vernet, Corine A.M.  
16 Guo, Xiaojia Sasha  
17 Tchernev,, Velizar T.  
18 Fernandes, Elma R.  
19 Casman, Stacie J.  
20 Malyankar, Uriel M.  
21 Gerlach, Valerie  
22 Liu, Yi  
23 Anderson, David W.  
24 Spaderna, Steven K.  
25 Catterton, Elina  
26 Leite, Mario W.  
27 Zhong, Haihong  
28 Alsobrook, John P.  
29 Lepley, Denise M.  
30 Rieger, Daniel K.  
W--> 31 Burgess, Catherine E.  
33 <120> TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same  
35 <130> FILE REFERENCE: 21402-290C  
C--> 37 <140> CURRENT APPLICATION NUMBER: US/10/092,900  
38 <141> CURRENT FILING DATE: 2002-03-07  
40 <150> PRIOR APPLICATION NUMBER: USSN 60/274,322  
41 <151> PRIOR FILING DATE: 2001-03-08  
43 <150> PRIOR APPLICATION NUMBER: USSN 60/283,675  
44 <151> PRIOR FILING DATE: 2001-04-13  
46 <150> PRIOR APPLICATION NUMBER: USSN 60/338,092  
47 <151> PRIOR FILING DATE: 2001-12-03  
49 <150> PRIOR APPLICATION NUMBER: USSN 60/274,281  
50 <151> PRIOR FILING DATE: 2001-03-08

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199 <150> PRIOR APPLICATION NUMBER: USSN 60/279,344  
 200 <151> PRIOR FILING DATE: 2001-03-28  
 202 <150> PRIOR APPLICATION NUMBER: USSN 60/332,271  
 203 <151> PRIOR FILING DATE: 2001-11-14  
 205 <150> PRIOR APPLICATION NUMBER: USSN 60/291,099  
 206 <151> PRIOR FILING DATE: 2001-05-16  
 208 <150> PRIOR APPLICATION NUMBER: USSN 60/291,190  
 W--> 209 <151> PRIOR FILING DATE: 2001-5-15  
 211 <150> PRIOR APPLICATION NUMBER: USSN 60/280,233  
 212 <151> PRIOR FILING DATE: 2001-03-30  
 214 <150> PRIOR APPLICATION NUMBER: USSN 60/280,802  
 215 <151> PRIOR FILING DATE: 2001-04-02  
 217 <150> PRIOR APPLICATION NUMBER: USSN 60/335,301  
 218 <151> PRIOR FILING DATE: 2001-10-31  
 220 <150> PRIOR APPLICATION NUMBER: USSN 60/337,185  
 221 <151> PRIOR FILING DATE: 2001-12-04  
 223 <150> PRIOR APPLICATION NUMBER: USSN 60/345,705  
 224 <151> PRIOR FILING DATE: 2002-01-03  
 226 <160> NUMBER OF SEQ ID NOS: 768

## ERRORED SEQUENCES

3915 <210> SEQ ID NO: 38  
 3916 <211> LENGTH: 1221  
 3917 <212> TYPE: PRT  
 3918 <213> ORGANISM: Homo sapiens  
 3920 <400> SEQUENCE: 38  
 3921 Met Phe Ser Gly Thr Leu Gly Lys Asn Met Lys Thr Gln Pro Pro Leu  
 3922 1 5 10 15  
 3924 Ser Arg Met Asn Arg Glu Glu Leu Glu Asp Ser Phe Phe Arg Leu Arg  
 3925 20 25 30  
 3927 Glu Asp His Met Leu Val Lys Glu Leu Ser Trp Lys Gln Gln Asp Glu  
 3928 35 40 45  
 3930 Ile Lys Arg Leu Arg Thr Thr Leu Leu Arg Leu Thr Ala Ala Gly Arg  
 3931 50 55 60  
 3933 Asp Leu Arg Val Ala Glu Glu Ala Ala Pro Leu Ser Glu Thr Ala Arg  
 3934 65 70 75 80  
 3936 Arg Gly Gln Lys Ala Gly Trp Arg Gln Arg Leu Ser Met His Gln Arg  
 3937 85 90 95  
 3939 Pro Gln Met His Arg Leu Gln Gly His Phe His Cys Val Gly Pro Ala  
 3940 100 105 110  
 3942 Ser Pro Arg Arg Ala Gln Pro Arg Val Gln Val Gly His Arg Gln Leu  
 3943 115 120 125  
 3945 His Thr Ala Gly Ala Pro Val Pro Glu Lys Pro Lys Arg Gly Arg Asp  
 3946 130 135 140  
 3948 Arg Leu Ser Tyr Thr Ala Pro Pro Ser Phe Lys Glu His Ala Thr Asn  
 3949 145 150 155 160  
 3951 Glu Asn Arg Gly Glu Val Ala Ser Lys Pro Ser Glu Leu Ala His Ile

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4099 945          950          955          960
4101 Ile Leu Asn Gly Asn Thr Leu Lys Gln Val Asn Tyr Thr Glu Trp Lys
4102          965          970          975
4104 Phe Ser Glu Thr Asn Ser Phe Ile Gly Asp Gly Phe Lys Asn Gln His
4105          980          985          990
4107 Glu Glu Glu Glu Met Thr Leu Ser His Ser Ala Leu Lys Gln Lys
E--> 4108          995          1000          1005
4110 Pro Leu His Pro Val Asn Asp Lys Glu Ser Ser Glu Gln Gly Ser
E--> 4111          1010          1015          1020
4113 Val Ser Glu Ala Gln Thr Thr Asp Ser Asp Asp Val Ile Val Pro Pro
E--> 4114 1025          1030          1035          1040
4116 Met Ser Gln Lys Tyr Pro Lys Ala Asp Ser Glu Lys Met Cys Ile Glu
E--> 4117          045          050          055
4119 Ile Val Ser Leu Ala Phe Tyr Pro Glu Ala Glu Val Met Ser Asp Glu
E--> 4120          060          065          070
4122 Asn Ile Lys Gln Val Tyr Val Glu Tyr Lys Phe Tyr Asp Leu Pro Leu
E--> 4123          075          080          085
4125 Ser Glu Thr Glu Thr Pro Val Ser Leu Arg Lys Pro Arg Ala Gly Glu
E--> 4126          090          095          100
4128 Glu Ile His Phe His Phe Ser Lys Val Ile Asp Leu Asp Pro Gln Glu
E--> 4129 105          110          115          120
4131 Gln Gln Gly Arg Arg Phe Leu Phe Asp Met Leu Asn Gly Gln Asp
E--> 4132          125          130          135
4134 Pro Asp Gln Gly Gln Leu Lys Phe Thr Val Val Ser Asp Pro Leu Asp
E--> 4135          140          145          150
4137 Glu Glu Lys Lys Glu Cys Glu Glu Val Gly Tyr Ala Tyr Leu Gln Leu
E--> 4138          155          160          165
4140 Trp Gln Ile Leu Glu Ser Gly Arg Asp Ile Leu Glu Gln Glu Leu Asp
E--> 4141          170          175          180
4143 Val Val Ser Pro Glu Asp Leu Ala Thr Pro Ile Gly Arg Leu Lys Val
E--> 4144 185          190          195          200
4146 Ser Leu Gln Ala Ala Val Leu His Ala Ile Tyr Lys Glu Met Thr
E--> 4147          205          210          215
4149 Glu Asp Leu Phe Ser
E--> 4150          220
8708 <210> SEQ ID NO: 76
8709 <211> LENGTH: 2545
8710 <212> TYPE: PRT
8711 <213> ORGANISM: Homo sapiens
8713 <400> SEQUENCE: 76
8714 Met Val Ala Leu Ser Leu Lys Ile Cys Val Arg His Cys Asn Val Val
8715 1          5          10          15
8717 Lys Thr Met Gln Phe Glu Pro Ser Thr Ala Val Tyr Asp Ala Cys Arg
8718          20          25          30
8720 Val Ile Arg Glu Arg Val Pro Glu Ala Gln Thr Gly Gln Ala Ser Asp
8721          35          40          45
8723 Tyr Gly Leu Phe Leu Ser Asp Glu Asp Pro Arg Lys Gly Ile Trp Leu
8724          50          55          60
8726 Glu Ala Gly Arg Thr Leu Asp Tyr Tyr Met Leu Arg Asn Gly Asp Ile

```

The type of errors shown exist throughout  
the Sequence Listing. Please check subsequent  
sequences for similar errors. ↑

Where digits were  
missing from amino  
numbering!!

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```

8874      850      855      860
8876 Ala Ala Lys Leu Leu Ala Asp Ser Thr Ala Arg Met Val Glu Ala Ala
8877 865      870      875      880
8879 Lys Gly Ala Ala Ala Asn Pro Glu Asn Glu Asp Gln Gln Gln Arg Leu
8880      885      890      895
8882 Arg Glu Ala Ala Glu Gly Leu Arg Val Ala Thr Asn Ala Ala Ala Gln
8883      900      905      910
8885 Asn Ala Ile Lys Lys Lys Ile Val Asn Arg Leu Glu Val Ala Ala Lys
8886      915      920      925
8888 Gln Ala Ala Ala Ala Ala Thr Gln Thr Ile Ala Ala Ser Gln Asn Ala
8889      930      935      940
8891 Ala Val Ser Asn Lys Asn Pro Ala Ala Gln Gln Gln Leu Val Gln Ser
8892 945      950      955      960
8894 Cys Lys Ala Val Ala Asp His Ile Pro Gln Leu Val Gln Gly Val Arg
8895      965      970      975
8897 Gly Ser Gln Ala Gln Ala Glu Asp Leu Ser Ala Gln Leu Ala Leu Ile
8898      980      985      990
8900 Ile Ser Ser Gln Asn Phe Leu Gln Pro Gly Ser Lys Met Val Ser Ser
E--> 8901      995      000      005
8903 Ala Lys Ala Ala Val Pro Thr Val Ser Asp Gln Ala Ala Ala Met Gln
E--> 8904      010      015      020
8906 Leu Ser Gln Cys Ala Lys Asn Leu Ala Thr Ser Leu Ala Glu Leu Arg
E--> 8907 025      030      035      040
8909 Thr Ala Ser Gln Lys Ala His Glu Ala Cys Gly Pro Met Glu Ile Asp
E--> 8910      045      050      055
8912 Ser Ala Leu Asn Thr Val Gln Thr Leu Lys Asn Glu Leu Gln Asp Ala
E--> 8913      060      065      070
8915 Lys Met Ala Ala Val Glu Ser Gln Leu Lys Pro Leu Pro Gly Glu Thr
E--> 8916      075      080      085
8918 Leu Glu Lys Cys Ala Gln Asp Leu Gly Ser Thr Ser Lys Ala Val Gly
E--> 8919      090      095      100
8921 Ser Ser Met Ala Gln Leu Thr Cys Ala Ala Gln Gly Asn Glu His
E--> 8922 105      110      115      120
8924 Tyr Thr Gly Val Ala Ala Arg Glu Thr Ala Gln Ala Leu Lys Thr Leu
E--> 8925      125      130      135
8927 Ala Gln Ala Ala Arg Gly Val Ala Ala Ser Thr Thr Asp Pro Ala Ala
E--> 8928      140      145      150
8930 Ala His Ala Met Leu Asp Ser Ala Arg Asp Val Met Glu Gly Ser Ala
E--> 8931      155      160      165
8933 Met Leu Ile Gln Glu Ala Lys Gln Ala Leu Ile Ala Pro Gly Asp Ala
E--> 8934      170      175      180
8936 Glu Arg Gln Gln Arg Leu Ala Gln Val Ala Lys Ala Val Ser His Ser
E--> 8937 185      190      195      200
8939 Leu Asn Asn Cys Val Asn Cys Leu Pro Gly Gln Lys Asp Val Asp Val
E--> 8940      205      210      215
8942 Ala Leu Lys Ser Ile Gly Glu Ser Ser Lys Lys Leu Leu Val Asp Ser
E--> 8943      220      225      230
8945 Leu Pro Pro Ser Thr Lys Pro Phe Gln Glu Ala Gln Ser Glu Leu Asn
E--> 8946      235      240      245

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```

E--> 9168          420          425          430
      9170 Lys Gln Val Ala Ala Ser Thr Ala Gln Leu Leu Val Ala Cys Lys Val
E--> 9171          435          440          445
      9173 Lys Ala Asp Gln Asp Ser Glu Ala Met Arg Arg Leu Gln Ala Ala Gly
E--> 9174          450          455          460
      9176 Asn Ala Val Lys Arg Ala Ser Asp Asn Leu Val Arg Ala Ala Gln Lys
E--> 9177 465          470          475          480
      9179 Ala Ala Phe Gly Lys Ala Asp Asp Asp Val Val Val Glu Thr Lys
E--> 9180          485          490          495
      9182 Phe Val Gly Gly Ile Ala Gln Ile Ile Ala Ala Gln Glu Glu Met Leu
E--> 9183          500          505          510
      9185 Lys Lys Glu Arg Glu Leu Glu Glu Ala Arg Lys Lys Leu Ala Gln Ile
E--> 9186          515          520          525
      9188 Arg Gln Gln Gln Tyr Lys Phe Leu Pro Thr Glu Leu Arg Glu Asp Glu
E--> 9189          530          535          540
      9191 Gly
E--> 9192 545
10097 <210> SEQ ID NO: 82
10098 <211> LENGTH: 1419
10099 <212> TYPE: PRT
10100 <213> ORGANISM: Homo sapiens
10102 <400> SEQUENCE: 82
10103 Met Thr Trp Asp Thr Ala Leu Trp Thr Ser Val Phe Leu Ile Gly Leu
10104 1 5 10 15
10106 Leu Pro Thr Leu Gly Phe Ala Asn Cys Ile Leu Gln Thr Ser Gly Lys
10107 20 25 30
10109 Met Cys Thr Leu Arg Gly Arg Tyr Pro Gln Pro Pro Gln Pro Pro Leu
10110 35 40 45
10112 Cys Leu Ser Pro Leu Val His Gln Leu Arg Pro Ala Asp Ile Lys Val
10113 50 55 60
10115 Val Ala Ala Leu Gly Asn Asp Glu Thr Phe Gln Glu Ser Gly Ala Gly
10116 65 70 75 80
10118 Gln Leu Ser Glu Pro Asp Pro Arg Gln Trp Ser Trp Pro Gln Ala Cys
10119 85 90 95
10121 Leu Pro Gly Val Lys Lys Glu Met Gln Asp Val Val Gly Glu Arg Thr
10122 100 105 110
10124 Pro Ser Arg Arg Arg Ser Leu Arg Arg Glu Ala Leu Val Pro Ala
10125 115 120 125
10127 Ala Gly Lys Glu Ser Leu Cys Arg Gln Asp Ile Phe Ile Ser Leu Leu
10128 130 135 140
10130 Glu Ile Ile Lys His Phe Pro Pro Ser Pro Gln Asp Ile Asn Leu Glu
10131 145 150 155 160
10133 Lys Asp Trp Lys Leu Val Thr Leu Phe Ile Gly Val Asn Asp Leu Cys
10134 165 170 175
10136 His Tyr Cys Pro Leu Val Gln Gly Pro Val Ile Asp Leu Gly Gly Met
10137 180 185 190
10139 Asp Thr Leu His Ser Leu Gln Leu Pro Arg Ala Phe Val Asn Val Val
10140 195 200 205
10142 Glu Val Met Glu Leu Ala Ser Leu Tyr Gln Gly Gln Gly Gly Lys Cys

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```

E--> 10290          995          000          005
      10292 Gln Asn Glu Pro Phe Leu Arg Thr Pro Arg Asn Ser Asn Tyr Thr Tyr
E--> 10293          010          015          020
      10295 Pro Ile Lys Pro Ala Ile Glu Asn Trp Gly Ser Asp Phe Leu Cys Thr
E--> 10296 025          030          035          040
      10298 Glu Trp Lys Ala Ser Asn Ser Val Pro Thr Ser Val His Gln Leu Arg
E--> 10299          045          050          055
      10301 Pro Ala Asp Ile Lys Val Val Ala Ala Leu Gly Asp Ser Leu Thr Thr
E--> 10302          060          065          070
      10304 Ala Val Gly Ala Arg Pro Asn Asn Ser Ser Asp Leu Pro Thr Ser Trp
E--> 10305          075          080          085
      10307 Arg Gly Leu Ser Trp Ser Ile Gly Gly Asp Gly Asn Leu Glu Thr His
E--> 10308          090          095          100
      10310 Thr Thr Leu Pro Ser Ile Leu Lys Lys Phe Asn Pro Tyr Leu Leu Gly
E--> 10311 105          110          115          120
      10313 Phe Ser Thr Ser Thr Trp Glu Gly Thr Ala Gly Leu Asn Val Ala Ala
E--> 10314          125          130          135
      10316 Glu Gly Ala Arg Ala Arg Arg Asp Met Pro Ala Gln Ala Trp Asp Leu
E--> 10317          140          145          150
      10319 Val Glu Arg Met Lys Asn Ser Pro Ile His Phe Gln Glu Asp Trp Lys
E--> 10320          155          160          165
      10322 Ile Ile Thr Leu Phe Ile Gly Gly Asn Asp Leu Cys Asp Phe Cys Asn
E--> 10323          170          175          180
      10325 Asp Leu Val Gly Glu Tyr Val Gln His Ile Gln Gln Ala Leu Asp Ile
E--> 10326 185          190          195          200
      10328 Leu Ser Glu Glu Leu Pro Arg Ala Phe Val Asn Val Val Glu Val Met
E--> 10329          205          210          215
      10331 Glu Leu Ala Ser Leu Tyr Gln Gly Gln Gly Gly Lys Cys Ala Met Leu
E--> 10332          220          225          230
      10334 Ala Ala Gln Asn Asn Cys Thr Cys Leu Arg His Ser Gln Ser Ser Leu
E--> 10335          235          240          245
      10337 Glu Lys Gln Glu Leu Lys Lys Val Asn Trp Asn Leu Gln His Gly Ile
E--> 10338          250          255          260
      10340 Ser Ser Phe Ser Tyr Trp His Gln Tyr Thr Gln Arg Glu Asp Phe Ala
E--> 10341 265          270          275          280
      10343 Val Val Val Gln Pro Phe Phe Gln Asn Thr Leu Thr Pro Leu Asn Arg
E--> 10344          285          290          295
      10346 Gly Asp Thr Asp Leu Thr Phe Phe Ser Glu Asp Cys Phe His Phe Ser
E--> 10347          300          305          310
      10349 Asp Arg Gly His Ala Glu Met Ala Ile Ala Leu Trp Asn Asn Met Leu
E--> 10350          315          320          325
      10352 Glu Pro Val Gly Arg Lys Thr Thr Ser Asn Asn Phe Thr His Ser Arg
E--> 10353          330          335          340
      10355 Ala Lys Leu Lys Cys Pro Ser Pro Val Ser Pro Tyr Leu Tyr Thr Leu
E--> 10356 345          350          355          360
      10358 Arg Asn Ser Arg Leu Leu Pro Asp Gln Ala Glu Glu Ala Pro Glu Val
E--> 10359          365          370          375
      10361 Leu Tyr Trp Ala Val Pro Val Ala Ala Gly Val Gly Leu Val Val Gly
E--> 10362          380          385          390

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10364 Ile Ile Gly Thr Val Val Trp Arg Cys Arg Arg Gly Gly Arg Arg Glu
E--> 10365      395      400      405
10367 Asp Pro Pro Met Ser Leu Arg Thr Val Ala Leu
E--> 10368      410      415
10962 <210> SEQ ID NO: 86
10963 <211> LENGTH: 1423
10964 <212> TYPE: PRT
10965 <213> ORGANISM: Homo sapiens
10967 <400> SEQUENCE: 86
10968 Met Gly Leu Arg Pro Gly Ile Phe Leu Leu Glu Leu Leu Leu Leu
10969      1      5      10      15
10971 Gly Gln Gly Thr Pro Gln Ile His Thr Ser Pro Arg Lys Ser Thr Leu
10972      20      25      30
10974 Glu Gly Gln Leu Trp Pro Glu Thr Val His Ser Leu Lys Pro Ser Asp
10975      35      40      45
10977 Ile Lys Phe Val Ala Ala Ile Gly Asn Leu Glu Ile Val Pro Asp Pro
10978      50      55      60
10980 Gly Thr Gly Asp Leu Glu Lys Gln Asp Glu Arg Pro Gln Gln Val Cys
10981      65      70      75      80
10983 Met Gly Val Met Thr Val Leu Ser Asp Ile Ile Arg Tyr Phe Ser Pro
10984      85      90      95
10986 Ser Val Pro Met Pro Val Cys His Thr Gly Lys Arg Val Ile Pro His
10987      100     105     110
10989 Asp Gly Ala Glu Asp Leu Trp Ile Gln Ala Gln Glu Leu Val Arg Asn
10990      115     120     125
10992 Met Lys Glu Asn Gln Leu Asp Phe Gln Phe Asp Trp Lys Leu Ile Asn
10993      130     135     140
10995 Val Phe Phe Ser Asn Ala Ser Gln Cys Tyr Leu Cys Pro Ser Ala Gln
10996      145     150     155     160
10998 Gln Asn Gly Leu Ala Ala Gly Gly Val Asp Glu Leu Met Gly Val Leu
10999      165     170     175
11001 Asp Tyr Leu Gln Gln Glu Val Pro Arg Ala Phe Val Asn Leu Val Asp
11002      180     185     190
11004 Leu Ser Glu Val Ala Glu Val Ser Arg Gln Tyr His Gly Thr Trp Leu
11005      195     200     205
11007 Ser Pro Ala Pro Glu Pro Cys Asn Cys Ser Glu Glu Thr Thr Arg Leu
11008      210     215     220
11010 Ala Lys Val Val Met Gln Trp Ser Tyr Gln Glu Ala Trp Asn Ser Leu
11011      225     230     235     240
11013 Leu Ala Ser Ser Arg Tyr Ser Glu Gln Glu Ser Phe Thr Val Val Phe
11014      245     250     255
11016 Gln Pro Phe Phe Tyr Glu Thr Thr Pro Ser Asp Pro Arg Leu Gln Asp
11017      260     265     270
11019 Ser Thr Thr Leu Ala Trp His Leu Trp Asn Arg Met Met Glu Pro Ala
11020      275     280     285
11022 Gly Glu Lys Asp Glu Pro Leu Ser Val Lys His Gly Arg Pro Met Lys
11023      290     295     300
11025 Cys Pro Ser Gln Glu Ser Pro Tyr Leu Phe Ser Tyr Arg Asn Ser Asn
11026      305     310     315     320

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11175 Glu Thr His Thr Thr Leu Pro Asp Ile Leu Lys Lys Phe Asn Pro Tyr
E--> 11176 105                      110                      115                      120
11178 Leu Leu Gly Phe Ser Thr Ser Thr Trp Glu Gly Thr Ala Gly Leu Asn
E--> 11179                      125                      130                      135
11181 Val Ala Ala Glu Gly Ala Arg Ala Arg Asp Met Pro Ala Gln Ala Trp
E--> 11182                      140                      145                      150
11184 Asp Leu Val Glu Arg Met Lys Asn Ser Pro Gln Asp Ile Asn Leu Glu
E--> 11185                      155                      160                      165
11187 Lys Asp Trp Lys Leu Val Thr Leu Phe Ile Gly Val Asn Asp Leu Cys
E--> 11188                      170                      175                      180
11190 His Tyr Cys Glu Asn Pro Val Gly Glu Tyr Val Gln His Ile Gln Gln
E--> 11191 185                      190                      195                      200
11193 Ala Leu Asp Ile Leu Ser Glu Glu Leu Pro Arg Ala Phe Val Asn Val
E--> 11194                      205                      210                      215
11196 Val Glu Val Met Glu Leu Ala Ser Leu Tyr Gln Gly Gln Gly Gly Lys
E--> 11197                      220                      225                      230
11199 Cys Ala Met Leu Ala Ala Gln Asn Asn Cys Thr Cys Leu Arg His Ser
E--> 11200                      235                      240                      245
11202 Gln Ser Ser Leu Glu Lys Gln Glu Leu Lys Lys Val Asn Trp Asn Leu
E--> 11203                      250                      255                      260
11205 Gln His Gly Ile Ser Ser Phe Ser Tyr Trp His Gln Tyr Thr Gln Arg
E--> 11206 265                      270                      275                      280
11208 Glu Asp Phe Ala Val Val Gln Pro Phe Phe Gln Asn Thr Leu Thr
E--> 11209                      285                      290                      295
11211 Pro Leu Asn Arg Gly Asp Thr Asp Leu Thr Phe Phe Ser Glu Asp Cys
E--> 11212                      300                      305                      310
11214 Phe His Phe Ser Asp Arg Gly His Ala Glu Met Ala Ile Ala Leu Trp
E--> 11215                      315                      320                      325
11217 Asn Asn Met Leu Glu Pro Val Gly Arg Lys Thr Thr Ser Asn Asn Phe
E--> 11218                      330                      335                      340
11220 Thr His Ser Arg Ala Lys Leu Lys Cys Pro Ser Pro Glu Ser Pro Tyr
E--> 11221 345                      350                      355                      360
11223 Leu Tyr Thr Leu Arg Asn Ser Arg Leu Leu Pro Asp Gln Ala Glu Glu
E--> 11224                      365                      370                      375
11226 Ala Pro Glu Val Leu Tyr Trp Ala Val Pro Val Ala Ala Gly Val Gly
E--> 11227                      380                      385                      390
11229 Leu Val Val Gly Ile Ile Gly Thr Val Val Trp Arg Cys Arg Arg Gly
E--> 11230                      395                      400                      405
11232 Gly Arg Arg Glu Asp Pro Pro Met Ser Leu Arg Thr Val Ala Leu
E--> 11233                      410                      415                      420
13746 <210> SEQ ID NO: 110
13747 <211> LENGTH: 1115
13748 <212> TYPE: PRT
13749 <213> ORGANISM: Homo sapiens
13751 <400> SEQUENCE: 110
13752 Met Arg Arg Leu Ser Leu Trp Trp Leu Leu Ser Arg Val Cys Leu Leu
13753 1 5 10 15
13755 Leu Pro Pro Pro Cys Ala Leu Val Leu Ala Gly Val Pro Ser Ser Ser
13756 20 25 30

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```

13905 Met Arg Arg Tyr Asn Val Pro Ala Thr Pro Asp Gly Val Glu Tyr Leu
13906                820                825                830
13908 Lys Asn Asp Pro Glu Lys Leu Asp Ala Phe Ile Met Asp Lys Ala Leu
13909                835                840                845
13911 Leu Asp Tyr Glu Val Ser Ile Asp Ala Asp Cys Lys Leu Leu Thr Val
13912                850                855                860
13914 Gly Lys Pro Phe Ala Ile Glu Gly Tyr Gly Ile Gly Leu Pro Pro Asn
13915 865                870                875                880
13917 Ser Pro Leu Thr Ala Asn Ile Ser Glu Leu Ile Ser Gln Tyr Lys Ser
13918                885                890                895
13920 His Gly Phe Met Asp Met Leu His Asp Lys Trp Tyr Arg Val Val Pro
13921                900                905                910
13923 Cys Gly Lys Arg Ser Phe Ala Val Thr Glu Thr Leu Gln Met Gly Ile
13924                915                920                925
13926 Lys His Phe Ser Gly Leu Phe Val Leu Leu Cys Ile Gly Phe Gly Leu
13927                930                935                940
13929 Ser Ile Leu Thr Thr Ile Gly Glu His Ile Val Tyr Arg Leu Leu Leu
13930 945                950                955                960
13932 Pro Arg Ile Lys Asn Lys Ser Lys Leu Gln Tyr Trp Leu His Thr Ser
13933                965                970                975
13935 Gln Arg Leu His Arg Ala Ile Asn Thr Ser Phe Ile Glu Glu Lys Gln
13936                980                985                990
13938 Gln His Phe Lys Thr Lys Arg Val Glu Lys Arg Ser Asn Val Gly Pro
E--> 13939                995                000                005
13941 Arg Gln Leu Thr Val Trp Asn Thr Ser Asn Leu Ser His Asp Asn Arg
E--> 13942                010                015                020
13944 Arg Lys Tyr Ile Phe Ser Asp Glu Glu Gly Gln Asn Gln Leu Gly Ile
E--> 13945 025                030                035                040
13947 Arg Ile His Gln Asp Ile Pro Leu Pro Pro Arg Arg Arg Glu Leu Pro
E--> 13948                045                050                055
13950 Ala Leu Arg Thr Thr Asn Gly Lys Ala Asp Ser Leu Asn Val Ser Arg
E--> 13951                060                065                070
13953 Asn Ser Val Met Gln Glu Leu Ser Glu Leu Glu Lys Gln Ile Gln Val
E--> 13954                075                080                085
13956 Ile Arg Gln Glu Leu Gln Leu Ala Val Ser Arg Lys Thr Glu Leu Glu
E--> 13957                090                095                100
13959 Glu Tyr Gln Arg Thr Ser Arg Thr Cys Glu Ser
E--> 13960 105                110                115
15531 <210> SEQ ID NO: 128
15532 <211> LENGTH: 1267
15533 <212> TYPE: PRT
15534 <213> ORGANISM: Homo sapiens
15536 <400> SEQUENCE: 128
15537 Met Met Met Asn Val Pro Gly Gly Gly Ala Ala Ala Val Met Met Thr
15538 1                5                10                15
15540 Gly Tyr Asn Asn Gly Arg Cys Pro Arg Asn Ser Leu Tyr Ser Asp Cys
15541                20                25                30
15543 Ile Ile Glu Glu Lys Thr Val Val Leu Gln Lys Lys Asp Asn Glu Gly
15544                35                40                45

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/092,900

DATE: 11/01/2002

TIME: 12:24:30

Input Set : N:\EBONY'S\EP.txt

Output Set: N:\CRF4\11012002\J092900.raw

```

15693 Leu Glu Phe Ala Asn Ser Phe Asp Ile Pro Asp Asp Arg Ala Ala Ser
15694      835      840      845
15696 Val Pro Ala Leu Ser Asp Leu Val Lys Gln Lys Lys Ser Asp Thr Pro
15697      850      855      860
15699 Gln Ser Pro Ser Leu Asn Ser Ser Gln Pro Thr Asn Ser Ala Asp Ser
15700 865      870      875      880
15702 Lys Lys Pro Ala Ser Leu Ser Asn Cys Leu Pro Ala Ser Phe Leu Pro
15703      885      890      895
15705 Pro Pro Glu Ser Phe Asp Ala Val Ala Asp Ser Gly Ile Glu Glu Val
15706      900      905      910
15708 Asp Ser Arg Ser Ser Ser Asp His His Leu Glu Thr Thr Ser Thr Ile
15709      915      920      925
15711 Ser Thr Val Ser Ser Ile Ser Thr Leu Ser Ser Glu Gly Gly Glu Asn
15712      930      935      940
15714 Val Asp Thr Cys Thr Val Tyr Ala Asp Gly Gln Ala Phe Met Val Asp
15715 945      950      955      960
15717 Lys Pro Pro Val Pro Pro Lys Pro Lys Met Lys Pro Ile Ile His Lys
15718      965      970      975
15720 Ser Asn Ala Leu Tyr Gln Asp Ala Leu Val Glu Glu Asp Val Asp Ser
15721      980      985      990
15723 Phe Val Ile Pro Pro Pro Ala Pro Pro Pro Pro Gly Ser Ala Gln
E--> 15724      995      000      005
15726 Pro Gly Met Ala Lys Val Leu Gln Pro Arg Thr Ser Lys Leu Trp Gly
E--> 15727      010      015      020
15729 Asp Val Thr Glu Ile Lys Ser Pro Ile Leu Ser Gly Pro Lys Ala Asn
E--> 15730 025      030      035      040
15732 Val Ile Ser Glu Leu Asn Ser Ile Leu Gln Gln Met Asn Arg Glu Lys
E--> 15733      045      050      055
15735 Leu Ala Lys Pro Gly Glu Gly Leu Asp Ser Pro Met Gly Ala Lys Ser
E--> 15736      060      065      070
15738 Ala Ser Leu Ala Pro Arg Ser Pro Glu Ile Met Ser Thr Ile Ser Gly
E--> 15739      075      080      085
15741 Thr Arg Ser Thr Thr Val Thr Phe Thr Val Arg Pro Gly Thr Ser Gln
E--> 15742      090      095      100
15744 Pro Ile Thr Leu Gln Ser Arg Pro Pro Asp Tyr Glu Ser Arg Thr Ser
E--> 15745 105      110      115      120
15747 Gly Thr Arg Arg Ala Pro Ser Pro Val Val Ser Pro Thr Glu Met Asn
E--> 15748      125      130      135
15750 Lys Glu Thr Leu Pro Ala Pro Leu Ser Ala Ala Thr Ala Ser Pro Ser
E--> 15751      140      145      150
15753 Pro Ala Leu Ser Asp Val Phe Ser Leu Pro Ser Gln Pro Pro Ser Gly
E--> 15754      155      160      165
15756 Asp Leu Phe Gly Leu Asn Pro Ala Gly Arg Ser Arg Ser Pro Ser Pro
E--> 15757      170      175      180
15759 Ser Ile Leu Gln Gln Pro Ile Ser Asn Lys Pro Phe Thr Thr Lys Pro
E--> 15760 185      190      195      200
15762 Val His Leu Trp Thr Lys Pro Asp Val Ala Asp Trp Leu Glu Ser Leu
E--> 15763      205      210      215
15765 Asn Leu Gly Glu His Lys Glu Ala Phe Met Asp Asn Glu Ile Asp Gly

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/092,900

DATE: 11/01/2002

TIME: 12:24:30

Input Set : N:\EBONY'S\EP.txt

Output Set: N:\CRF4\11012002\J092900.raw

```

E--> 15766          220          225          230
      15768 Ser His Leu Pro Asn Leu Gln Lys Glu Asp Leu Ile Asp Leu Gly Val
E--> 15769          235          240          245
      15771 Thr Arg Val Gly His Arg Met Asn Ile Glu Arg Ala Leu Lys Gln Leu
E--> 15772          250          255          260
      15774 Leu Asp Arg
E--> 15775 265
      25337 <210> SEQ ID NO: 218
      25338 <211> LENGTH: 2498
      25339 <212> TYPE: PRT
      25340 <213> ORGANISM: Homo sapiens
      25342 <400> SEQUENCE: 218
      25343 Met Val Leu Leu Leu Cys Leu Ser Cys Leu Ile Phe Ser Cys Leu Thr
      25344   1          5          10          15
      25346 Phe Ser Trp Leu Lys Ile Trp Gly Lys Met Thr Asp Ser Lys Pro Ile
      25347          20          25          30
      25349 Thr Lys Ser Lys Ser Glu Ala Asn Leu Ile Pro Ser Gln Glu Pro Phe
      25350          35          40          45
      25352 Pro Ala Ser Asp Asn Ser Gly Glu Thr Pro Gln Arg Asn Gly Glu Gly
      25353          50          55          60
      25355 His Thr Leu Pro Lys Thr Pro Ser Gln Ala Glu Pro Ala Ser His Lys
      25356          65          70          75          80
      25358 Gly Pro Lys Asp Ala Gly Arg Arg Arg Asn Ser Leu Pro Pro Ser His
      25359          85          90          95
      25361 Gln Lys Pro Pro Arg Asn Pro Leu Ser Ser Ser Asp Ala Ala Pro Ser
      25362          100         105         110
      25364 Pro Glu Leu Gln Ala Asn Gly Thr Gly Thr Gln Gly Leu Glu Ala Thr
      25365          115         120         125
      25367 Asp Thr Asn Gly Leu Ser Ser Ser Ala Arg Pro Gln Gly Gln Gln Ala
      25368          130         135         140
      25370 Gly Ser Pro Ser Lys Glu Asp Lys Lys Gln Ala Asn Ile Lys Arg Gln
      25371          145         150         155         160
      25373 Leu Met Thr Asn Phe Ile Leu Gly Ser Phe Asp Asp Tyr Ser Ser Asp
      25374          165         170         175
      25376 Glu Asp Ser Val Ala Gly Ser Ser Arg Glu Ser Thr Arg Lys Gly Ser
      25377          180         185         190
      25379 Arg Ala Ser Leu Gly Ala Leu Ser Leu Glu Ala Tyr Leu Thr Thr Arg
      25380          195         200         205
      25382 Pro Ser Met Ser Gly Leu His Leu Val Lys Arg Gly Arg Glu His Lys
      25383          210         215         220
      25385 Lys Leu Asp Leu His Arg Asp Phe Thr Val Ala Ser Pro Ala Glu Phe
      25386          225         230         235         240
      25388 Val Thr Arg Phe Gly Gly Asp Arg Val Ile Glu Lys Val Leu Ile Ala
      25389          245         250         255
      25391 Asn Asn Gly Ile Ala Ala Val Lys Cys Met Arg Ser Ile Arg Arg Trp
      25392          260         265         270
      25394 Ala Tyr Glu Met Phe Arg Asn Glu Arg Ala Ile Arg Phe Val Val Met
      25395          275         280         285
      25397 Val Thr Pro Glu Asp Leu Lys Ala Asn Ala Glu Tyr Ile Lys Met Ala

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/092,900

DATE: 11/01/2002

TIME: 12:24:30

Input Set : N:\EBONY'S\EP.txt

Output Set: N:\CRF4\11012002\J092900.raw

```

25472 Gln Phe Gly His Cys Phe Ser Trp Gly Glu Asn Arg Glu Glu Ala Ile
25473      690      695      700
25475 Ser Asn Met Val Val Ala Leu Lys Glu Leu Ser Ile Arg Gly Asp Phe
25476 705      710      715      720
25478 Arg Thr Thr Val Glu Tyr Leu Ile Asn Leu Glu Thr Glu Ser Phe
25479      725      730      735
25481 Gln Asn Asn Asp Ile Asp Thr Gly Trp Leu Asp Tyr Leu Ile Ala Glu
25482      740      745      750
25484 Lys Val Gln Ala Glu Lys Pro Asp Ile Met Leu Gly Val Val Cys Gly
25485      755      760      765
25487 Ala Leu Asn Val Ala Asp Ala Met Phe Arg Thr Cys Met Thr Asp Phe
25488      770      775      780
25490 Leu His Ser Leu Glu Arg Gly Gln Val Leu Pro Ala Asp Ser Leu Leu
25491 785      790      795      800
25493 Asn Leu Val Asp Val Glu Leu Ile Tyr Gly Gly Val Lys Tyr Ile Leu
25494      805      810      815
25496 Lys Val Ala Arg Gln Ser Leu Thr Met Phe Val Leu Ile Met Asn Gly
25497      820      825      830
25499 Cys His Ile Glu Ile Asp Ala His Arg Leu Asn Asp Gly Gly Leu Leu
25500      835      840      845
25502 Leu Ser Tyr Asn Gly Asn Ser Tyr Thr Thr Tyr Met Lys Glu Glu Val
25503      850      855      860
25505 Asp Ser Tyr Arg Ile Thr Ile Gly Asn Lys Thr Cys Val Phe Glu Lys
25506 865      870      875      880
25508 Glu Asn Asp Pro Thr Val Leu Arg Ser Pro Ser Ala Gly Lys Leu Thr
25509      885      890      895
25511 Gln Tyr Thr Val Glu Asp Gly Gly His Val Glu Ala Gly Ser Ser Tyr
25512      900      905      910
25514 Ala Glu Met Glu Val Met Lys Met Ile Met Thr Leu Asn Val Gln Glu
25515      915      920      925
25517 Arg Gly Arg Val Lys Tyr Ile Lys Arg Pro Gly Ala Val Leu Glu Ala
25518      930      935      940
25520 Gly Cys Val Val Ala Arg Leu Glu Leu Asp Asp Pro Ser Lys Val His
25521 945      950      955      960
25523 Pro Ala Glu Pro Phe Thr Gly Glu Leu Pro Ala Gln Gln Thr Leu Pro
25524      965      970      975
25526 Ile Leu Gly Glu Lys Leu His Gln Val Phe His Ser Val Leu Glu Asn
25527      980      985      990
25529 Leu Thr Asn Val Met Ser Gly Phe Cys Leu Pro Glu Pro Val Phe Ser
E--> 25530      995      000      005
25532 Ile Lys Leu Lys Glu Trp Val Gln Lys Leu Met Met Thr Leu Arg His
E--> 25533      010      015      020
25535 Pro Ser Leu Pro Leu Leu Glu Leu Gln Glu Ile Met Thr Ser Val Ala
E--> 25536 025      030      035      040
25538 Gly Arg Ile Pro Ala Pro Val Glu Lys Ser Val Arg Arg Val Met Ala
E--> 25539      045      050      055
25541 Gln Tyr Ala Ser Asn Ile Thr Ser Val Leu Cys Gln Phe Pro Ser Gln
E--> 25542      060      065      070
25544 Gln Ile Ala Thr Ile Leu Asp Cys His Ala Ala Thr Leu Gln Arg Lys

```

## RAW SEQUENCE LISTING

DATE: 11/01/2002

PATENT APPLICATION: US/10/092,900

TIME: 12:24:30

Input Set : N:\EBONY'S\EP.txt

Output Set: N:\CRF4\11012002\J092900.raw

```

25766 Glu Met Tyr Ala Asp Lys Glu Ser Arg Gly Gly Val Leu Glu Pro Glu
E--> 25767          260          265          270
25769 Gly Thr Val Glu Ile Lys Phe Arg Lys Lys Asp Leu Ile Lys Ser Met
E--> 25770          275          280          285
25772 Arg Arg Ile Asp Pro Ala Tyr Lys Lys Leu Met Glu Gln Leu Gly Glu
E--> 25773          290          295          300
25775 Pro Asp Leu Ser Asp Lys Asp Arg Lys Asp Leu Glu Gly Arg Leu Lys
E--> 25776 305          310          315          320
25778 Ala Arg Glu Asp Leu Leu Pro Ile Tyr His Gln Val Ala Val Gln
E--> 25779          325          330          335
25781 Phe Ala Asp Phe His Asp Thr Pro Gly Arg Met Leu Glu Lys Gly Val
E--> 25782          340          345          350
25784 Ile Ser Asp Ile Leu Glu Trp Lys Thr Ala Arg Thr Phe Leu Tyr Trp
E--> 25785          355          360          365
25787 Arg Leu Arg Arg Leu Leu Leu Glu Asp Gln Val Lys Gln Glu Ile Leu
E--> 25788          370          375          380
25790 Gln Ala Ser Gly Glu Leu Ser His Val His Ile Gln Ser Met Leu Arg
E--> 25791 385          390          395          400
25793 Arg Trp Phe Val Glu Thr Glu Gly Ala Val Lys Ala Tyr Leu Trp Asp
E--> 25794          405          410          415
25796 Asn Asn Gln Val Val Val Gln Trp Leu Glu Gln His Trp Gln Ala Gly
E--> 25797          420          425          430
25799 Asp Gly Pro Arg Ser Thr Ile Arg Glu Asn Ile Thr Tyr Leu Lys His
E--> 25800          435          440          445
25802 Asp Ser Val Leu Lys Thr Ile Arg Gly Leu Val Glu Glu Asn Pro Glu
E--> 25803          450          455          460
25805 Val Ala Val Asp Cys Val Ile Tyr Leu Ser Gln His Ile Ser Pro Ala
E--> 25806 465          470          475          480
25808 Glu Arg Ala Gln Val Val His Leu Leu Ser Thr Met Asp Ser Pro Ala
E--> 25809          485          490          495
25811 Ser Thr
26588 <210> SEQ ID NO: 224
26589 <211> LENGTH: 1390
26590 <212> TYPE: PRT
26591 <213> ORGANISM: Homo sapiens
26593 <400> SEQUENCE: 224
26594 Met Ser Ala Glu Ser Gly Pro Gly Thr Arg Leu Arg Asn Leu Pro Val
26595 1          5          10          15
26597 Met Gly Asp Gly Leu Glu Thr Ser Gln Met Ser Thr Thr Gln Ala Gln
26598          20          25          30
26600 Ala Gln Pro Gln Pro Ala Asn Ala Ala Ser Thr Asn Pro Pro Pro Pro
26601          35          40          45
26603 Glu Thr Ser Asn Pro Asn Lys Pro Lys Arg Gln Thr Asn Gln Leu Gln
26604          50          55          60
26606 Tyr Leu Leu Arg Val Val Leu Lys Thr Leu Trp Lys His Gln Phe Ala
26607 65          70          75          80
26609 Trp Pro Phe Gln Gln Pro Val Asp Ala Val Lys Leu Asn Leu Pro Asp
26610          85          90          95
26612 Tyr Tyr Lys Ile Ile Lys Thr Pro Met Asp Met Gly Thr Ile Lys Lys

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/092,900

DATE: 11/01/2002

TIME: 12:24:30

Input Set : N:\EBONY'S\EP.txt

Output Set: N:\CRF4\11012002\J092900.raw

26760					885					890					895	
26762	Thr	Pro	Leu	Leu	Pro	Gln	Pro	Pro	Met	Ala	Gln	Pro	Pro	Gln	Val	Leu
26763				900					905					910		
26765	Leu	Glu	Asp	Glu	Glu	Pro	Pro	Ala	Pro	Pro	Leu	Thr	Ser	Met	Gln	Met
26766			915					920					925			
26768	Gln	Leu	Tyr	Leu	Gln	Gln	Leu	Gln	Lys	Val	Gln	Pro	Pro	Thr	Pro	Leu
26769		930					935					940				
26771	Leu	Pro	Ser	Val	Lys	Val	Gln	Ser	Gln	Pro	Pro	Pro	Pro	Leu	Pro	Pro
26772	945				950						955				960	
26774	Pro	Pro	His	Pro	Ser	Val	Gln	Gln	Gln	Leu	Gln	Gln	Gln	Pro	Pro	Pro
26775				965						970					975	
26777	Pro	Pro	Pro	Pro	Gln	Pro	Gln	Pro	Pro	Pro	Gln	Gln	Gln	His	Gln	Pro
26778				980					985					990		
26780	Pro	Pro	Arg	Pro	Val	His	Leu	Gln	Pro	Met	Gln	Phe	Ser	Thr	His	Ile
E--> 26781			995					000					005			
26783	Gln	Gln	Pro	Pro	Pro	Pro	Gln	Gly	Gln	Gln	Pro	Pro	His	Pro	Pro	Pro
E--> 26784		010					015				020					
26786	Gly	Gln	Gln	Pro	Pro	Pro	Pro	Gln	Pro	Ala	Lys	Pro	Gln	Gln	Val	Ile
E--> 26787	025				030					035					040	
26789	Gln	His	His	His	Ser	Pro	Arg	His	His	Lys	Ser	Asp	Pro	Tyr	Ser	Thr
E--> 26790				045						050				055		
26792	Gly	His	Leu	Arg	Glu	Ala	Pro	Ser	Pro	Leu	Met	Ile	His	Ser	Pro	Gln
E--> 26793			060					065				070				
26795	Met	Ser	Gln	Phe	Gln	Ser	Leu	Thr	His	Gln	Ser	Pro	Pro	Gln	Gln	Asn
E--> 26796		075					080			085						
26798	Val	Gln	Pro	Lys	Lys	Gln	Val	Thr	Gly	Arg	Ala	Gly	Pro	Ser	Pro	Val
E--> 26799		090				095				100						
26801	Gly	Gln	Gly	Arg	Gly	Cys	Leu	Pro	Thr	Ser	Pro	Ala	Ala	Val	Pro	Val
E--> 26802	105				110					115					120	
26804	Pro	Ser	Gln	Glu	Leu	Arg	Ala	Ala	Ser	Val	Val	Gln	Pro	Gln	Pro	Leu
E--> 26805				125					130					135		
26807	Val	Val	Val	Lys	Glu	Glu	Lys	Ile	His	Ser	Pro	Ile	Ile	Arg	Ser	Glu
E--> 26808			140					145				150				
26810	Pro	Phe	Ser	Pro	Ser	Leu	Arg	Pro	Glu	Pro	Pro	Lys	His	Pro	Glu	Ser
E--> 26811		155					160				165					
26813	Ile	Lys	Ala	Pro	Val	Tyr	Val	Pro	Gly	Pro	Glu	Met	Lys	Pro	Val	Asp
E--> 26814		170				175					180					
26816	Val	Gly	Arg	Pro	Val	Ile	Arg	Pro	Pro	Glu	Gln	Asn	Ala	Pro	Pro	Pro
E--> 26817	185				190					195					200	
26819	Gly	Ala	Pro	Asp	Lys	Asp	Lys	Gln	Lys	Gln	Glu	Pro	Lys	Thr	Pro	Val
E--> 26820			205					210						215		
26822	Ala	Pro	Lys	Lys	Asp	Leu	Lys	Ile	Lys	Asn	Met	Gly	Ser	Trp	Ala	Ser
E--> 26823			220					225						230		
26825	Leu	Val	Gln	Lys	His	Pro	Thr	Thr	Pro	Ser	Ser	Thr	Ala	Lys	Ser	Ser
E--> 26826		235					240					245				
26828	Ser	Asp	Ser	Phe	Glu	Gln	Phe	Arg	Arg	Ala	Ala	Arg	Glu	Lys	Glu	Glu
E--> 26829		250				255					260					
26831	Arg	Glu	Lys	Ala	Leu	Lys	Ala	Gln	Ala	Glu	His	Ala	Glu	Lys	Glu	Lys
E--> 26832	265				270					275					280	

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/092,900

DATE: 11/01/2002

TIME: 12:24:30

Input Set : N:\EBONY'S\EP.txt

Output Set: N:\CRF4\11012002\J092900.raw

```

26834 Glu Arg Leu Arg Gln Glu Arg Met Arg Ser Arg Glu Asp Glu Asp Ala
E--> 26835          285          290          295
26837 Leu Glu Gln Ala Arg Arg Ala His Glu Glu Ala Arg Arg Arg Gln Glu
E--> 26838          300          305          310
26840 Gln Gln Gln Gln Gln Arg Gln Glu Gln Gln Gln Gln Gln Gln
E--> 26841          315          320          325
26843 Ala Ala Val Ala Ala Ala Ala Thr Pro Gln Ala Gln Ser Ser Gln
E--> 26844          330          335          340
26846 Pro Gln Ser Met Leu Asp Gln Gln Arg Glu Leu Ala Arg Lys Arg Glu
E--> 26847 345          350          355          360
26849 Gln Glu Arg Arg Arg Arg Glu Ala Met Ala Ala Thr Ile Asp Met Asn
E--> 26850          365          370          375
26852 Phe Gln Ser Asp Leu Leu Ser Ile Phe Glu Glu Asn Leu Phe
E--> 26853          380          385          390
27616 <210> SEQ ID NO: 230
27617 <211> LENGTH: 1013
27618 <212> TYPE: PRT
27619 <213> ORGANISM: Homo sapiens
27621 <400> SEQUENCE: 230
27622 Met Glu Asp Glu Glu Gly Pro Glu Tyr Gly Lys Pro Asp Phe Val Leu
27623 1          5          10          15
27625 Leu Asp Gln Val Thr Met Glu Asp Phe Met Arg Asn Leu Gln Leu Arg
27626          20          25          30
27628 Phe Glu Lys Gly Arg Ile Tyr Thr Tyr Ile Gly Glu Val Leu Val Ser
27629          35          40          45
27631 Val Asn Pro Tyr Gln Glu Leu Pro Leu Tyr Gly Pro Glu Ala Ile Ala
27632          50          55          60
27634 Arg Tyr Gln Gly Arg Glu Leu Tyr Glu Arg Pro Pro His Leu Tyr Ala
27635 65          70          75          80
27637 Val Ala Asn Ala Ala Tyr Lys Ala Met Lys His Arg Ser Arg Asp Thr
27638          85          90          95
27640 Cys Ile Val Ile Ser Gly Glu Ser Gly Ala Gly Lys Thr Glu Ala Ser
27641          100         105         110
27643 Lys His Ile Met Gln Tyr Ile Ala Ala Val Thr Asn Pro Ser Gln Arg
27644          115         120         125
27646 Ala Glu Val Glu Arg Val Lys Asp Val Leu Leu Lys Ser Thr Cys Val
27647          130         135         140
27649 Leu Glu Ala Phe Gly Asn Ala Arg Thr Asn Arg Asn His Asn Ser Ser
27650 145          150         155         160
27652 Arg Phe Gly Lys Tyr Met Asp Ile Asn Phe Asp Phe Lys Gly Asp Pro
27653          165         170         175
27655 Ile Gly Gly His Ile His Ser Tyr Leu Leu Glu Lys Ser Arg Val Leu
27656          180         185         190
27658 Lys Gln His Val Gly Glu Arg Asn Phe His Ala Phe Tyr Gln Leu Leu
27659          195         200         205
27661 Arg Gly Ser Glu Asp Lys Gln Leu His Glu Leu His Leu Glu Arg Asn
27662          210         215         220
27664 Pro Ala Val Tyr Asn Phe Thr His Gln Gly Ala Gly Leu Asn Met Thr
27665 225          230         235         240

```

## RAW SEQUENCE LISTING

DATE: 11/01/2002

PATENT APPLICATION: US/10/092,900

TIME: 12:24:31

Input Set : N:\EBONY'S\EP.txt

Output Set: N:\CRF4\11012002\J092900.raw

```

28647 <210> SEQ ID NO: 240
28648 <211> LENGTH: 1301
28649 <212> TYPE: PRT
28650 <213> ORGANISM: Homo sapiens
28652 <400> SEQUENCE: 240
28653 Met Asn Asn Tyr Val Leu Asn Asp Glu Ile Gly Gln Gly Ala Phe Ser
28654 1 5 10 15
28656 Thr Ile Tyr Lys Gly Arg Tyr Arg Thr Thr Thr Glu Phe Tyr Ala Ile
28657 20 25 30
28659 Ala Ser Ile Asp Lys Lys Arg Arg Glu Arg Val Val Asn Cys Val Gln
28660 35 40 45
28662 Leu Leu Arg Ser Met His His Ser Asn Val Ile Glu Phe His Asn Trp
28663 50 55 60
28665 Tyr Glu Thr Asn Asn His Leu Trp Ile Ile Thr Glu Tyr Cys Thr Gly
28666 65 70 75 80
28668 Gly Asp Met Ser Thr Ile Leu Arg Ser Asn Ile Asn Leu Thr Thr Gln
28669 85 90 95
28671 Ala Val Gln Ala Phe Gly Arg Asp Val Ala Met Gly Leu Met Tyr Ile
28672 100 105 110
28674 His Ser Lys Gly Val Val Tyr Asn Asp Leu Gln Thr Arg Asn Leu Leu
28675 115 120 125
28677 Met Asp Ser Ala Ala Met Leu Arg Phe His Asp Phe Ser Leu Ala Cys
28678 130 135 140
28680 Leu Phe Gln Asp Ala Ala Thr Arg Pro Leu Val Gly Thr Pro Leu Tyr
28681 145 150 155 160
28683 Met Ala Pro Glu Leu Phe Met Ala Asp Arg Pro Leu Tyr Ser Met Ala
28684 165 170 175
28686 Ser Asp Leu Trp Ser Phe Gly Cys Val Leu His Glu Leu Ala Thr Gly
28687 180 185 190
28689 Lys Pro Pro Phe Ala Ala Ser Asp Leu Glu Thr Leu Leu Gly Asp Ile
28690 195 200 205
28692 Leu Thr Ser Pro Thr Pro Ala Val Pro Gly Ala Pro Glu Ser Phe Gln
28693 210 215 220
28695 Thr Leu Leu Cys Gly Leu Leu Glu Lys Asp Pro Leu Lys Arg Tyr Ala
28696 225 230 235 240
28698 Trp Val Asp Val Val Arg Ser Glu Phe Trp Asp Glu Pro Leu Pro Leu
28699 245 250 255
28701 Pro Ser Asn Gly Phe Pro Ser Gln Val Ala Trp Glu Asp Tyr Lys Arg
28702 260 265 270
28704 Ser Arg Ser Gly Arg Gly Ala Ser Gln Tyr Asn Trp Thr Asp Ser Asp
28705 275 280 285
28707 Val Arg Val Ala Val Ala His Ala Val Gly Ala Ala Lys Ser Asn Ala
28708 290 295 300
28710 Ser Thr His Asn Val Glu Glu Arg Glu Arg Ala Ala Ala Thr Leu Asn
28711 305 310 315 320
28713 Val Ala Lys Glu Leu Asp Phe Thr Ala Ser Ala Ala Met Leu Leu Glu
28714 325 330 335
28716 Arg Leu Pro Glu Arg Thr Gln Glu Arg Ala Ala His Ala Thr Gly His
28717 340 345 350

```



DATE: 11/01/2002

PATENT APPLICATION: US/10/092,900

TIME: 12:24:31

Input Set : N:\EBONY'S\EP.txt

Output Set: N:\CRF4\11012002\J092900.raw

28792				740				745				750				
28794	Arg	Ser	Arg	Val	Ser	Asn	Arg	Phe	Met	Arg	Tyr	Phe	Asn	Tyr	Leu	Ala
28795			755					760					765			
28797	Phe	Pro	Glu	Met	Ser	Asp	Met	Ser	Lys	Arg	Thr	Ile	Leu	Gln	Ala	Ile
28798		770					775					780				
28800	Leu	Val	Gly	Gly	Leu	Ala	Gln	Ser	Gly	Leu	Ala	Asp	Arg	Leu	Ala	Asn
28801	785					790					795					800
28803	Val	Ala	Ser	Ala	Val	Val	Asp	Ser	Thr	Leu	Arg	Val	Phe	Arg	Lys	Cys
28804				805						810					815	
28806	Thr	Gln	Val	Phe	Leu	Pro	Thr	Pro	Ala	His	Val	His	Tyr	Ser	Phe	Asn
28807				820					825					830		
28809	Met	Arg	Asp	Val	Met	Arg	Val	Phe	Pro	Leu	Leu	Tyr	Thr	Ala	Asp	Lys
28810			835					840					845			
28812	Ser	Val	Leu	Gln	Ser	Glu	Glu	Ser	Ile	Val	Arg	Leu	Trp	Met	His	Glu
28813		850					855					860				
28815	Met	Gln	Arg	Val	Phe	Tyr	Asp	Arg	Leu	Val	Asp	Ala	Thr	Asp	Lys	Gly
28816	865					870					875					880
28818	Leu	Phe	Ile	Glu	Tyr	Leu	Asn	Ala	Glu	Leu	Pro	Ser	Met	Gly	Val	Asp
28819				885						890					895	
28821	Lys	Ser	Tyr	Asn	Glu	Val	Val	Lys	Ala	Asp	Arg	Leu	Ile	Phe	Ala	Asp
28822				900					905					910		
28824	Val	Leu	Ser	Asp	Lys	Gly	Val	Tyr	Glu	Gln	Ile	Thr	Asp	Met	Asn	Ala
28825			915					920					925			
28827	Leu	Thr	Thr	Arg	Met	Asn	Glu	Leu	Leu	Glu	Ala	Tyr	Asn	Asp	Glu	Asn
28828		930					935					940				
28830	Glu	Val	Lys	Met	Asn	Leu	Val	Leu	Phe	Leu	Asp	Ala	Ile	Glu	His	Val
28831	945					950					955				960	
28833	Cys	Arg	Ile	Ser	Arg	Val	Leu	Arg	Leu	Pro	Asn	Gly	His	Cys	Leu	Leu
28834				965						970					975	
28836	Leu	Gly	Val	Gly	Gly	Ser	Gly	Arg	Lys	Ser	Leu	Thr	Arg	Leu	Ala	Cys
28837				980					985					990		
28839	Ser	Leu	Ile	Ala	Glu	Met	Glu	Val	Phe	Thr	Ile	Glu	Leu	Ser	Lys	Asn
E--> 28840			995					000					005			
28842	Phe	Gly	Val	Lys	Glu	Trp	His	Glu	Ser	Leu	Ala	Lys	Leu	Leu	Leu	Glu
E--> 28843		010					015					020				
28845	Cys	Gly	Lys	Asp	Glu	Lys	Lys	Arg	Thr	Phe	Leu	Phe	Ala	Asp	Thr	Gln
E--> 28846	025					030					035					040
28848	Leu	Ala	His	Pro	Thr	Phe	Leu	Glu	Asp	Val	Ala	Gly	Leu	Leu	Thr	Ser
E--> 28849				045						050					055	
28851	Gly	Asp														

## RAW SEQUENCE LISTING

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Input Set : N:\EBONY'S\EP.txt

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```

      28866 Glu Trp Pro Ser Glu Ala Leu Leu Ser Val Ala Ala Val Gln Leu Asn
E--> 28867      140      145      150
      28869 Ala Gly Asp Val Thr Asp Val Met Gly Ala Ala Ser His Ala Asp Leu
E--> 28870      155      160      165
      28872 Pro Gly Cys Phe Gln Ala Val His Arg Ala Ala Ala Glu Val Thr Glu
E--> 28873      170      175      180
      28875 Arg Phe Phe Thr Glu Thr Arg Arg Arg Ser Tyr Val Thr Pro Thr Ser
E--> 28876 185      190      195      200
      28878 Tyr Leu Ser Leu Leu Ser Asn Phe Lys Val Met Ala Ala Ala Lys Arg
E--> 28879      205      210      215
      28881 Arg Phe Val Arg Glu Gln Arg Gly Arg Leu Glu Lys Gly Leu Glu Lys
E--> 28882      220      225      230
      28884 Leu Arg His Thr Glu Val Gln Val Ala Glu Leu Glu Ala Gln Leu Lys
E--> 28885      235      240      245
      28887 Ala Gln Gln Pro Val Leu Val Gln Lys Lys Ala Glu Ile Gln Ser Met
E--> 28888      250      255      260
      28890 Met Glu Arg Leu Thr Val Asp Arg Lys Glu Ala Ala Val Lys Glu Ala
E--> 28891 265      270      275      280
      28893 Asp Ala Arg Arg Glu Ala Gln Leu Pro Gly Gly Arg Ala Ala Tyr Gly
E--> 28894      285      290      295
      28896 Gly Glu Asp Asp Glu
E--> 28897      300
31389 <210> SEQ ID NO: 264
31390 <211> LENGTH: 1943
31391 <212> TYPE: PRT
31392 <213> ORGANISM: Homo sapiens
31394 <400> SEQUENCE: 264
31395 Met Pro Ile Arg Ile Thr Trp Arg Lys Asp Gly Gln Val Ile Ile Ser
31396 1 5 10 15
31398 Gly Ser Gly Val Thr Ile Glu Ser Lys Glu Phe Met Ser Ser Leu Gln
31399 20 25 30
31401 Ile Ser Ser Val Ser Leu Lys His Asn Gly Asn Tyr Thr Cys Ile Ala
31402 35 40 45
31404 Ser Asn Ala Ala Ala Thr Val Ser Ile Val Ser Pro Glu His Arg Phe
31405 50 55 60
31407 Phe Ile Thr Tyr His Gly Leu Tyr Ile Ser Asp Val Gln Lys Glu
31408 65 70 75 80
31410 Asp Ala Leu Ser Thr Tyr Arg Cys Ile Thr Lys His Lys Tyr Ser Gly
31411 85 90 95
31413 Glu Thr Arg Gln Ser Asn Gly Ala Arg Leu Ser Val Thr Asp Pro Ala
31414 100 105 110
31416 Glu Ser Ile Pro Thr Ile Leu Asp Gly Phe His Ser Gln Glu Val Trp
31417 115 120 125
31419 Ala Gly His Thr Val Glu Leu Pro Cys Thr Ala Ser Gly Tyr Pro Ile
31420 130 135 140
31422 Pro Ala Ile Arg Trp Leu Lys Asp Gly Arg Pro Leu Pro Ala Asp Ser
31423 145 150 155 160
31425 Arg Trp Thr Lys Arg Ile Thr Gly Leu Thr Ile Ser Asp Leu Arg Thr
31426 165 170 175

```

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```

31575 Arg Ala Gly Thr Gly Pro Ser Ser Ser Glu Ile Asn Ala Thr Thr Leu
31576                               965                               970                               975
31578 Glu Asp Val Pro Ser Gln Pro Pro Glu Asn Val Arg Ala Leu Ser Ile
31579                               980                               985                               990
31581 Thr Ser Asp Val Ala Val Ile Ser Trp Ser Glu Pro Pro Arg Ser Thr
E--> 31582          995          000          005
31584 Leu Asn Gly Val Leu Lys Gly Tyr Arg Val Ile Phe Trp Ser Leu Tyr
E--> 31585          010          015          020
31587 Val Asp Gly Glu Trp Gly Glu Met Gln Asn Ile Thr Thr Thr Arg Glu
E--> 31588 025          030          035          040
31590 Arg Val Glu Leu Arg Gly Met Glu Lys Phe Thr Asn Tyr Ser Val Gln
E--> 31591          045          050          055
31593 Val Leu Ala Tyr Thr Gln Ala Gly Asp Gly Val Arg Ser Ser Val Leu
E--> 31594          060          065          070
31596 Tyr Ile Gln Thr Lys Glu Asp Val Pro Gly Pro Pro Ala Gly Ile Lys
E--> 31597          075          080          085
31599 Ala Val Pro Ser Ser Ala Ser Ser Val Val Val Ser Trp Leu Pro Pro
E--> 31600 090          095          100
31602 Thr Lys Pro Asn Gly Val Ile Arg Lys Tyr Thr Ile Phe Cys Ser Ser
E--> 31603 105          110          115          120
31605 Pro Gly Ser Gly Gln Pro Ala Pro Ser Glu Tyr Glu Thr Ser Pro Glu
E--> 31606          125          130          135
31608 Gln Leu Phe Tyr Arg Ile Ala His Leu Asn Arg Gly Gln Gln Tyr Leu
E--> 31609          140          145          150
31611 Leu Trp Val Ala Ala Val Thr Ser Ala Gly Arg Gly Asn Ser Ser Glu
E--> 31612          155          160          165
31614 Lys Val Thr Ile Glu Pro Ala Gly Lys Ala Pro Ala Lys Ile Ile Ser
E--> 31615 170          175          180
31617 Phe Gly Gly Thr Val Thr Thr Pro Trp Met Lys Asp Val Arg Leu Pro
E--> 31618 185          190          195          200
31620 Cys Asn Ser Val Gly Asp Pro Ala Pro Ala Val Lys Trp Thr Lys Asp
E--> 31621          205          210          215
31623 Ser Glu Asp Ser Ala Ile Pro Val Ser Met Asp Gly His Arg Leu Ile
E--> 31624          220          225          230
31626 His Thr Asn Gly Thr Leu Leu Leu Arg Ala Val Lys Ala Glu Asp Ser
E--> 31627          235          240          245
31629 Gly Tyr Tyr Thr Cys Thr Ala Thr Asn Thr Gly Gly Phe Asp Thr Ile
E--> 31630 250          255          260
31632 Ile Val Asn Leu Leu Val Gln Val Pro Pro Asp Gln Pro Arg Leu Thr
E--> 31633 265          270          275          280
31635 Val Ser Lys Thr Ser Ala Ser Ser Ile Thr Leu Thr Trp Ile Pro Gly
E--> 31636          285          290          295
31638 Asp Asn Gly Gly Ser Ser Ile Arg Gly Phe Val Leu Gln Tyr Ser Val
E--> 31639          300          305          310
31641 Asp Asn Ser Glu Glu Trp Lys Asp Val Phe Ile Ser Ser Ser Glu Arg
E--> 31642          315          320          325
31644 Ser Phe Lys Leu Asp Ser Leu Lys Cys Gly Thr Trp Tyr Lys Val Lys
E--> 31645          330          335          340
31647 Leu Ala Ala Lys Asn Ser Val Gly Ser Gly Arg Ile Ser Glu Ile Ile

```

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Input Set : N:\EBONY'S\EP.txt

Output Set: N:\CRF4\11012002\J092900.raw

```

31722 Met Thr Ser Met Ser Thr Pro Ser Glu Pro Gly Ile Cys Arg Phe Thr
E--> 31723 745          750          755          760
31725 Ala Ser Pro Pro Lys Pro Gln Asp Ala Asp Arg Gly Lys Asn Val Ala
E--> 31726          765          770          775
31728 Val Pro Ile Pro His Arg Ala Asn Lys Ser Asp Tyr Cys Asn Leu Pro
E--> 31729          780          785          790
31731 Leu Tyr Ala Lys Ser Glu Ala Phe Arg Lys Ala Asp Gly Arg Glu
E--> 31732          795          800          805
31734 Pro Cys Pro Val Val Pro Pro Arg Glu Ala Ser Ile Arg Asn Leu Ala
E--> 31735          810          815          820
31737 Arg Thr Tyr His Thr Gln Ala Arg His Leu Thr Leu Asp Pro Ala Ser
E--> 31738 825          830          835          840
31740 Lys Ser Leu Gly Leu Pro His Pro Gly Ala Pro Ala Ala Ala Ser Thr
E--> 31741          845          850          855
31743 Ala Thr Leu Pro Gln Arg Thr Leu Ala Met Pro Ala Pro Pro Ala Gly
E--> 31744          860          865          870
31746 Thr Ala Pro Pro Ala Pro Gly Pro Thr Pro Ala Glu Pro Pro Thr Ala
E--> 31747          875          880          885
31749 Pro Ser Ala Ala Pro Pro Ala Pro Ser Thr Glu Pro Pro Arg Ala Gly
E--> 31750          890          895          900
31752 Gly Pro His Thr Lys Met Gly Gly Ser Arg Asp Ser Leu Leu Glu Met
E--> 31753 905          910          915          920
31755 Ser Thr Ser Gly Val Gly Arg Ser Gln Lys Gln Gly Ala Gly Ala Tyr
E--> 31756          925          930          935
31758 Ser Lys Ser Tyr Thr Leu Val
E--> 31759          940
32274 <210> SEQ ID NO: 266
32275 <211> LENGTH: 1908
32276 <212> TYPE: PRT
32277 <213> ORGANISM: Homo sapiens
32279 <400> SEQUENCE: 266
32280 Met Pro Ile Arg Ile Thr Trp Arg Lys Asp Gly Gln Val Ile Ile Ser
32281 1          5          10          15
32283 Gly Ser Gly Val Thr Ile Glu Ser Lys Glu Phe Met Ser Ser Leu Gln
32284          20          25          30
32286 Ile Ser Ser Val Ser Leu Lys His Asn Gly Asn Tyr Thr Cys Ile Ala
32287          35          40          45
32289 Ser Asn Ala Ala Ala Thr Val Ser Ile Val Ser Pro Glu His Arg Phe
32290          50          55          60
32292 Phe Ile Thr Tyr His Gly Gly Leu Tyr Ile Ser Asp Val Gln Lys Glu
32293 65          70          75          80
32295 Asp Ala Leu Ser Thr Tyr Arg Cys Ile Thr Lys His Lys Tyr Ser Gly
32296          85          90          95
32298 Glu Thr Arg Gln Ser Asn Gly Ala Arg Leu Ser Val Thr Asp Pro Ala
32299          100          105          110
32301 Glu Ser Ile Pro Thr Ile Leu Asp Gly Phe His Ser Gln Glu Val Trp
32302          115          120          125
32304 Ala Gly His Thr Val Glu Leu Pro Cys Thr Ala Ser Gly Tyr Pro Ile
32305          130          135          140

```

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```

32454 Ser Glu Val Tyr Thr Leu Asp Asn Leu Lys Lys Phe Ala Gln Tyr Gly
32455      930      935      940
32457 Val Val Val Gln Ala Phe Asn Arg Ala Gly Thr Gly Pro Ser Ser Ser
32458 945      950      955      960
32460 Glu Ile Asn Ala Thr Leu Glu Asp Val Pro Ser Gln Pro Pro Glu
32461      965      970      975
32463 Asn Val Arg Ala Leu Ser Ile Thr Ser Asp Val Ala Val Ile Ser Trp
32464      980      985      990
32466 Ser Glu Pro Pro Arg Ser Thr Leu Asn Gly Val Leu Lys Gly Tyr Arg
E--> 32467      995      000      005
32469 Val Ile Phe Trp Ser Leu Tyr Val Asp Gly Glu Trp Gly Glu Met Gln
E--> 32470      010      015      020
32472 Asn Ile Thr Thr Thr Arg Glu Arg Val Glu Leu Arg Gly Met Glu Lys
E--> 32473 025      030      035      040
32475 Phe Thr Asn Tyr Ser Val Gln Val Leu Ala Tyr Thr Gln Ala Gly Asp
E--> 32476      045      050      055
32478 Gly Val Arg Ser Ser Val Leu Tyr Ile Gln Thr Lys Glu Asp Val Pro
E--> 32479      060      065      070
32481 Gly Pro Pro Ala Gly Ile Lys Ala Val Pro Ser Ser Ala Ser Ser Val
E--> 32482      075      080      085
32484 Val Val Ser Trp Leu Pro Pro Thr Lys Pro Asn Gly Val Ile Arg Lys
E--> 32485      090      095      100
32487 Tyr Thr Ile Phe Cys Ser Ser Pro Ala Pro Gln Ala Pro Ser Glu Tyr
E--> 32488 105      110      115      120
32490 Glu Thr Ser Pro Glu Gln Leu Phe Tyr Arg Ile Ala His Leu Asn Arg
E--> 32491      125      130      135
32493 Gly Gln Gln Tyr Leu Leu Trp Val Ala Ala Val Thr Ser Ala Gly Arg
E--> 32494      140      145      150
32496 Gly Asn Ser Ser Glu Lys Val Thr Ile Glu Pro Ala Gly Lys Ala Pro
E--> 32497      155      160      165
32499 Ala Lys Ile Ile Ser Phe Gly Gly Thr Val Thr Thr Pro Trp Met Lys
E--> 32500      170      175      180
32502 Asp Val Arg Leu Pro Cys Asn Ser Val Gly Asp Pro Ala Pro Ala Val
E--> 32503 185      190      195      200
32505 Lys Trp Thr Lys Asp Ser Glu Asp Ser Ala Ile Pro Val Ser Met Asp
E--> 32506      205      210      215
32508 Gly His Arg Leu Ile His Thr Asn Gly Thr Leu Leu Leu Arg Ala Val
E--> 32509      220      225      230
32511 Lys Ala Glu Asp Ser Gly Tyr Tyr Thr Cys Thr Ala Thr Asn Thr Gly
E--> 32512      235      240      245
32514 Gly Phe Asp Thr Ile Ile Val Asn Leu Leu Val Gln Val Pro Pro Asp
E--> 32515      250      255      260
32517 Gln Pro Arg Leu Thr Val Ser Lys Thr Ser Ala Ser Ser Ile Thr Leu
E--> 32518 265      270      275      280
32520 Thr Trp Ile Pro Gly Asp Asn Gly Gly Ser Ser Ile Arg Gly Phe Val
E--> 32521      285      290      295
32523 Leu Gln Tyr Ser Val Asp Asn Ser Glu Glu Trp Lys Asp Val Phe Ile
E--> 32524      300      305      310
32526 Ser Ser Ser Glu Arg Ser Phe Lys Leu Asp Ser Leu Lys Cys Gly Thr

```

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Input Set : N:\EBONY'S\EP.txt

Output Set: N:\CRF4\11012002\J092900.raw

```

32601 Cys Phe Ile Ser Asp Ser Ser Ser Asp Gln Met Thr Thr Gly Thr Asn
E--> 32602          715          720          725
32604 Glu Asn Ala Asp Ser Met Thr Ser Met Ser Thr Pro Ser Glu Pro Gly
E--> 32605          730          735          740
32607 Ile Cys Arg Phe Thr Ala Ser Pro Pro Lys Pro Gln Asp Ala Asp Arg
E--> 32608 745          750          755          760
32610 Leu Leu Met Leu Val Pro Gly Ala His Leu Pro Pro Gln Ser Ile His
E--> 32611          765          770          775
32613 Val Val Ala Tyr Val Arg Ile Ser Phe Leu Leu Asn Lys Gly Gly Gly
E--> 32614          780          785          790
32616 Asp Leu Ala Ser Asp Leu Ser Ser Gly Arg Ala Cys Ser Glu Pro Arg
E--> 32617          795          800          805
32619 Ser Arg Gly Thr Arg Pro Pro Thr Leu Val Ala Leu Thr Pro Ser Ser
E--> 32620          810          815          820
32622 Ser Thr Cys Glu Ala Gly Asp Pro Arg Trp Gly Gln Gly Trp Arg Lys
E--> 32623 825          830          835          840
32625 Gly Arg Asp Ser Ile Met Arg Glu Gly His Arg Met Glu Glu Ala Lys
E--> 32626          845          850          855
32628 Pro Arg Glu Arg Gln Thr Ser Gly Glu Thr Glu Val His Met Glu Gly
E--> 32629          860          865          870
32631 Glu Ala Gly Glu Leu Gly Ser Gly Ser Gly Ser Glu Gly Val Gly Glu
E--> 32632          875          880          885
32634 Pro Ala Pro Ser Arg His Gly Gly Thr Pro His Thr Pro Ser Gln Gly
E--> 32635          890          895          900
32637 Pro Pro Leu Cys
E--> 32638 905
32757 <210> SEQ ID NO: 268
32758 <211> LENGTH: 405
32759 <212> TYPE: PRT
32760 <213> ORGANISM: Homo sapiens
32762 <400> SEQUENCE: 268
32763 Met Gln Glu Val Leu Cys Lys Tyr Leu Pro His Thr Tyr Pro Pro His
32764 1          5          10          15
32766 Thr Tyr Pro Pro His Thr Tyr Pro Pro His Thr Tyr Leu Pro Cys Pro
32767          20          25          30
32769 Tyr Leu Pro Pro Thr Tyr Leu Pro Arg Pro Tyr Leu Pro Pro Thr Tyr
32770          35          40          45
32772 Leu Pro Arg Pro Tyr Leu Pro Pro Thr Tyr Leu Leu Cys Leu Tyr Leu
32773          50          55          60
32775 Trp Leu Gly Leu Trp Pro Cys Phe Leu Ala Ala Gln Ser Leu Pro Pro
32776 65          70          75          80
32778 Pro Leu Gln Ser Gly Gly Gly Ser Arg Ala Ser Arg Ala Pro Met Leu
32779          85          90          95
32781 Leu Val Ala Leu Val Leu Gly Ala Tyr Cys Leu Cys Ala Leu Pro Gly
32782          100          105          110
32784 Arg Cys Pro Pro Ala Ala Arg Ala Pro Ala Pro Ala Pro Ala Pro Ser
32785          115          120          125
32787 Glu Pro Ser Ser Ser Val His Arg Pro Gly Ala Pro Gly Leu Pro Leu
32788          130          135          140

```

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TIME: 12:24:31

Input Set : N:\EBONY'S\EP.txt

Output Set: N:\CRF4\11012002\J092900.raw

```

32790 Ala Ser Gly Pro Gly Arg Arg Phe Pro Gln Ala Leu Ile Val Gly
32791 145 150 155 160
32793 Val Lys Lys Gly Gly Thr Arg Ala Leu Leu Glu Phe Leu Arg Leu His
32794 165 170 175
32796 Pro Asp Arg Ala Leu Gly Ser Glu His Phe Phe Asp Arg Cys
E--> 32797 180 185 190
32799 Gly Leu Trp Arg Ser Leu Met Pro Arg Thr Leu
E--> 32800 195 200 205
32802 Asp Gly Gln Ile Thr Met Glu Thr Pro Tyr Phe Val Thr Arg
E--> 32803 210 215 220
32805 Glu Ala Pro Arg Arg Ile His Ala Met Ser Pro Asp Thr Lys Leu Ile
E--> 32806 225 230 235 240
32808 Val Val Val Arg Asn Pro Val Thr Arg Ala Ile Ser Asp Gln
E--> 32809 245 250 255
32811 Thr Leu Ser Lys Thr Pro Gly Leu Pro Ser Phe Arg Ala Leu Ala Phe
E--> 32812 260 265 270
32814 Arg His Gly Leu Gly Pro Val Asp Thr Ala Trp Ser Ala Val Arg Ile
E--> 32815 275 280 285
32817 Gly Leu Tyr Ala Gln His Leu Asp His Trp Leu Arg Tyr Phe Pro Leu
E--> 32818 290 295 300
32820 Ser His Phe Leu Phe Val Ser Gly Glu Arg Leu Val Ser Asp Pro Ala
E--> 32821 305 310 315 320
32823 Gly Glu Val Gly Arg Val Gln Asp Phe Leu Gly Leu Lys Arg Val Val
E--> 32824 325 330 335
32826 Thr Asp Lys His Phe Tyr Phe Asn Ala Thr Lys Gly Phe Pro Cys Leu
E--> 32827 340 345 350
32829 Lys Lys Ala Gln Gly Gly Ser Arg Pro Arg Cys Leu Gly Lys Ser Lys
E--> 32830 355 360 365
32832 Gly Arg Pro His Pro Arg Val Pro Gln Ala Val Arg Arg Leu Gln
E--> 32833 370 375 380
32835 Glu Phe Tyr Arg Pro Phe Asn Arg Arg Phe Tyr Gln Met Thr Gly Gln
E--> 32836 385 390 395 400
32838 Asp Phe Gly Trp Gly
E--> 32839 405
33891 <210> SEQ ID NO: 274
33892 <211> LENGTH: 1045
33893 <212> TYPE: PRT
33894 <213> ORGANISM: Homo sapiens
33896 <400> SEQUENCE: 274
33897 Met Thr Ala Glu Leu Gln Gln Asp Asp Ala Ala Gly Ala Ala Asp Gly
33898 1 5 10 15
33900 His Gly Ser Ser Cys Gln Met Leu Leu Asn Gln Leu Arg Glu Ile Thr
33901 20 25 30
33903 Gly Ile Gln Asp Pro Ser Phe Leu His Glu Ala Leu Lys Ala Ser Asn
33904 35 40 45
33906 Gly Asp Ile Thr Gln Ala Val Ser Leu Leu Thr Asp Glu Arg Val Lys
33907 50 55 60
33909 Glu Pro Ser Gln Asp Thr Val Ala Thr Glu Pro Ser Glu Val Glu Gly
33910 65 70 75 80

```

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TIME: 12:24:31

Input Set : N:\EBONY'S\EP.txt

Output Set: N:\CRF4\11012002\J092900.raw

```

34059 Lys Val Ser Val Tyr Leu Leu Thr Gly Leu Glu Leu Tyr Gln Lys Gly
34060 865 870 875 880
34062 Lys Tyr Gln Glu Ala Leu Ser Tyr Leu Val Tyr Ala Tyr Gln Ser Asn
34063 885 890 895
34065 Ala Ala Leu Leu Met Lys Gly Pro Arg Arg Gly Val Lys Glu Ser Val
34066 900 905 910
34068 Ile Ala Leu Tyr Arg Arg Lys Cys Leu Leu Glu Leu Asn Ala Lys Ala
34069 915 920 925
34071 Ala Ser Leu Phe Glu Thr Asn Asp Asp His Ser Val Thr Glu Gly Ile
34072 930 935 940
34074 Asn Val Met Asn Glu Leu Ile Ile Pro Cys Ile His Leu Ile Ile Asn
34075 945 950 955 960
34077 Asn Asp Ile Ser Lys Asp Asp Leu Asp Ala Ile Glu Val Met Arg Asn
34078 965 970 975
34080 His Trp Cys Ser Tyr Leu Gly Gln Asp Ile Ala Glu Asn Leu Gln Leu
34081 980 985 990
34083 Cys Leu Gly Glu Phe Leu Pro Arg Leu Leu Asp Pro Ser Ala Glu Ile
E--> 34084 995 000 005
34086 Ile Val Leu Lys Glu Pro Pro Thr Ile Arg Pro Asn Ser Pro Tyr Asp
E--> 34087 010 015 020
34089 Leu Cys Ser Arg Phe Ala Ala Val Met Glu Ser Ile Gln Gly Val Ser
E--> 34090 025 030 035 040
34092 Thr Val Thr Val Lys
E--> 34093 045
34830 <210> SEQ ID NO: 278
34831 <211> LENGTH: 1045
34832 <212> TYPE: PRT
34833 <213> ORGANISM: Homo sapiens
34835 <400> SEQUENCE: 278
34836 Met Thr Ala Glu Leu Gln Gln Asp Asp Ala Ala Gly Ala Ala Asp Gly
34837 1 5 10 15
34839 His Gly Ser Ser Cys Gln Met Leu Leu Asn Gln Leu Arg Glu Ile Thr
34840 20 25 30
34842 Gly Ile Gln Asp Pro Ser Phe Leu His Glu Ala Leu Arg Ala Ser Asn
34843 35 40 45
34845 Gly Asp Ile Thr Gln Ala Val Ser Leu Leu Thr Asp Glu Arg Val Lys
34846 50 55 60
34848 Glu Pro Ser Gln Asp Thr Val Ala Thr Glu Pro Ser Glu Val Glu Gly
34849 65 70 75 80
34851 Ser Ala Ala Asn Lys Glu Val Leu Ala Lys Val Ile Asp Leu Thr His
34852 85 90 95
34854 Asp Asn Lys Asp Asp Leu Gln Ala Ala Ile Ala Leu Ser Leu Leu Glu
34855 100 105 110
34857 Ser Pro Lys Ile Gln Ala Asp Gly Arg Asp Leu Asn Arg Met His Glu
34858 115 120 125
34860 Ala Thr Ser Ala Glu Thr Lys Arg Ser Lys Arg Lys Arg Cys Glu Val
34861 130 135 140
34863 Trp Gly Glu Asn Pro Asn Pro Asn Asp Trp Arg Arg Val Asp Gly Trp
34864 145 150 155 160

```



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Input Set : N:\EBONY'S\EP.txt

Output Set: N:\CRF4\11012002\J092900.raw

```

35013 Asn Val Met Asn Glu Leu Ile Ile Pro Cys Ile His Leu Ile Ile Asn
35014 945                      950                      955                      960
35016 Asn Asp Ile Ser Lys Asp Asp Leu Asp Ala Ile Glu Val Met Arg Asn
35017                      965                      970                      975
35019 His Trp Cys Ser Tyr Leu Gly Gln Asp Ile Ala Glu Asn Leu Gln Leu
35020                      980                      985                      990
35022 Cys Leu Gly Glu Phe Leu Pro Arg Leu Leu Asp Pro Ser Ala Glu Ile
E--> 35023 995                      000                      005
35025 Ile Val Leu Lys Glu Pro Pro Thr Ile Arg Pro Asn Ser Pro Tyr Asp
E--> 35026 010                      015                      020
35028 Leu Cys Ser Arg Phe Ala Ala Val Met Glu Ser Ile Gln Gly Val Ser
E--> 35029 025                      030                      035                      040
35031 Thr Val Thr Val Lys
E--> 35032 045
36734 <210> SEQ ID NO: 292
36735 <211> LENGTH: 2390
36736 <212> TYPE: PRT
36737 <213> ORGANISM: Homo sapiens
36739 <400> SEQUENCE: 292
36740 Met Lys Glu Ile Cys Arg Ile Cys Ala Arg Glu Leu Cys Gly Asn Gln
36741 1 5 10 15
36743 Arg Arg Trp Ile Phe His Thr Ala Ser Lys Leu Asn Leu Gln Val Leu
36744 20 25 30
36746 Leu Ser His Val Leu Gly Lys Asp Val Pro Arg Asp Gly Lys Ala Glu
36747 35 40 45
36749 Phe Ala Cys Ser Lys Cys Ala Phe Met Leu Asp Arg Ile Tyr Arg Phe
36750 50 55 60
36752 Asp Thr Val Ile Ala Arg Ile Glu Ala Leu Ser Ile Glu Arg Leu Gln
36753 65 70 75 80
36755 Lys Leu Leu Leu Glu Lys Asp Arg Leu Lys Phe Cys Ile Ala Ser Met
36756 85 90 95
36758 Tyr Arg Lys Asn Asn Asp Asp Ser Gly Ala Glu Ile Lys Ala Gly Asn
36759 100 105 110
36761 Gly Thr Val Asp Met Ser Val Leu Pro Asp Ala Arg Tyr Ser Ala Leu
36762 115 120 125
36764 Leu Gln Glu Asp Phe Ala Tyr Ser Gly Phe Glu Cys Trp Val Glu Asn
36765 130 135 140
36767 Glu Asp Gln Ile Gln Glu Pro His Ser Cys His Gly Ser Glu Gly Pro
36768 145 150 155 160
36770 Gly Asn Arg Pro Arg Arg Cys Arg Gly Cys Ala Ala Leu Arg Val Ala
36771 165 170 175
36773 Asp Ser Asp Tyr Glu Ala Ile Cys Lys Val Pro Arg Lys Val Ala Arg
36774 180 185 190
36776 Ser Ile Ser Cys Gly Pro Ser Ser Arg Trp Ser Thr Ser Ile Cys Thr
36777 195 200 205
36779 Glu Glu Pro Ala Leu Ser Glu Val Gly Pro Pro Asp Leu Ala Ser Thr
36780 210 215 220
36782 Lys Val Pro Pro Asp Gly Glu Ser Met Glu Glu Glu Thr Pro Gly Ser
36783 225 230 235 240

```

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Input Set : N:\EBONY'S\EP.txt

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36858	625					630				635				640		
36860	Arg	Gln	Arg	Ile	His	Asp	Lys	Ala	Val	Ala	Leu	Glu	Arg	Ala	Ile	Asp
36861					645					650					655	
36863	Glu	Lys	Phe	Ser	Ala	Leu	Glu	Glu	Lys	Glu	Lys	Glu	Leu	Arg	Gln	Leu
36864					660					665					670	
36866	Arg	Leu	Ala	Val	Arg	Glu	Arg	Asp	His	Asp	Leu	Glu	Arg	Leu	Arg	Asp
36867					675					680					685	
36869	Val	Leu	Ser	Ser	Asn	Glu	Ala	Thr	Met	Gln	Ser	Met	Glu	Ser	Leu	Leu
36870					690					695					700	
36872	Arg	Ala	Lys	Gly	Leu	Glu	Val	Glu	Gln	Leu	Ser	Thr	Thr	Cys	Gln	Asn
36873	705									710					715	720
36875	Leu	Gln	Trp	Leu	Lys	Glu	Glu	Met	Glu	Thr	Lys	Phe	Ser	Arg	Trp	Gln
36876					725					730					735	
36878	Lys	Glu	Gln	Glu	Ser	Ile	Ile	Gln	Gln	Leu	Gln	Thr	Ser	Leu	His	Asp
36879					740					745					750	
36881	Arg	Asn	Lys	Glu	Val	Glu	Asp	Leu	Ser	Ala	Thr	Leu	Leu	Cys	Lys	Leu
36882					755					760					765	
36884	Gly	Pro	Gly	Gln	Ser	Glu	Ile	Ala	Glu	Glu	Leu	Cys	Gln	Arg	Leu	Gln
36885	770									775					780	
36887	Arg	Lys	Glu	Arg	Met	Leu	Gln	Asp	Leu	Leu	Ser	Asp	Arg	Asn	Lys	Gln
36888	785									790					795	800
36890	Val	Leu	Glu	His	Glu	Met	Glu	Ile	Gln	Gly	Leu	Leu	Gln	Ser	Val	Ser
36891					805					810					815	
36893	Thr	Arg	Glu	Gln	Glu	Ser	Gln	Ala	Ala	Ala	Glu	Lys	Leu	Val	Gln	Ala
36894					820					825					830	
36896	Leu	Met	Glu	Arg	Asn	Ser	Glu	Leu	Gln	Ala	Leu	Arg	Gln	Tyr	Leu	Gly
36897					835					840					845	
36899	Gly	Arg	Asp	Ser	Leu	Met	Ser	Gln	Ala	Pro	Ile	Ser	Asn	Gln	Gln	Ala
36900					850					855					860	
36902	Glu	Val	Thr	Pro	Thr	Gly	Arg	Leu	Gly	Lys	Gln	Thr	Asp	Gln	Gly	Ser
36903	865									870					875	880
36905	Met	Gln	Ile	Pro	Ser	Arg	Asp	Asp	Ser	Thr	Ser	Leu	Thr	Ala	Lys	Glu
36906					885					890					895	
36908	Asp	Val	Ser	Ile	Pro	Arg	Ser	Thr	Leu	Gly	Asp	Leu	Asp	Thr	Val	Ala
36909					900					905					910	
36911	Gly	Leu	Glu	Lys	Glu	Leu	Ser	Asn	Ala	Lys	Glu	Glu	Leu	Glu	Leu	Met
36912					915					920					925	
36914	Ala	Lys	Lys	Glu	Arg	Glu	Ser	Gln	Met	Glu	Leu	Ser	Ala	Leu	Gln	Ser
36915					930					935					940	
36917	Met	Met	Ala	Val	Gln	Glu	Glu	Glu	Leu	Gln	Val	Gln	Ala	Ala	Asp	Met
36918	945									950					955	960
36920	Glu	Ser	Leu	Thr	Arg	Asn	Ile	Gln	Ile	Lys	Glu	Asp	Leu	Ile	Lys	Asp
36921					965					970					975	
36923	Leu	Gln	Met	Gln	Leu	Val	Asp	Pro	Glu	Asp	Ile	Pro	Ala	Met	Glu	Arg
36924					980					985					990	
36926	Leu	Thr	Gln	Glu	Val	Leu	Leu	Leu	Arg	Glu	Lys	Val	Ala	Ser	Val	Glu
E--> 36927					995					000					005	
36929	Ser	Gln	Gly	Gln	Glu	Ile	Ser	Gly	Asn	Arg	Arg	Gln	Gln	Leu	Leu	Leu
E--> 36930					010					015					020	

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/092,900

DATE: 11/01/2002

TIME: 12:24:31

Input Set : N:\EBONY'S\EP.txt

Output Set: N:\CRF4\11012002\J092900.raw

```

E--> 37152      195      200      205
      37154 Gly Asp Ala Thr Asp Gly Ser Phe Ala Asn Lys His Gly Arg His Val
E--> 37155      210      215      220
      37157 Ile Gly His Ile Asp Asp Tyr Ser Ala Leu Arg Gln Gln Ile Ala Glu
E--> 37158 225      230      235      240
      37160 Gly Lys Leu Leu Val Lys Lys Ile Val Ser Leu Val Arg Ser Ala Cys
E--> 37161      245      250      255
      37163 Ser Phe Pro Gly Leu Glu Ala Gln Gly Thr Glu Val Leu Gly Ser Lys
E--> 37164      260      265      270
      37166 Gly Ile His Glu Leu Arg Ser Ser Thr Ser Ala Leu His His Ala Leu
E--> 37167      275      280      285
      37169 Glu Glu Ser Ala Ser Leu Leu Thr Met Phe Trp Arg Ala Ala Leu Pro
E--> 37170      290      295      300
      37172 Ser Thr His Ile Pro Val Leu Pro Gly Lys Val Gly Glu Ser Thr Glu
E--> 37173 305      310      315      320
      37175 Arg Glu Leu Leu Glu Leu Arg Thr Lys Val Ser Lys Gln Glu Arg Leu
E--> 37176      325      330      335
      37178 Leu Gln Ser Thr Thr Glu His Leu Lys Asn Ala Asn Gln Gln Lys Glu
E--> 37179      340      345      350
      37181 Ser Met Glu Gln Phe Ile Val Ser Gln Leu Thr Arg Thr His Asp Val
E--> 37182      355      360      365
      37184 Leu Lys Lys Ala Arg Thr Asn Leu Glu Val Lys Ser Leu Arg Ala Leu
E--> 37185      370      375      380
      37187 Pro Cys Thr Pro Ala Leu
E--> 37188 385      390
37795 <210> SEQ ID NO: 294
37796 <211> LENGTH: 2327
37797 <212> TYPE: PRT
37798 <213> ORGANISM: Homo sapiens
37800 <400> SEQUENCE: 294
37801 Met Ser Asn Gly Tyr Arg Thr Leu Ser Gln His Leu Asn Asp Leu Lys
37802 1 5 10 15
37804 Lys Glu Asn Phe Ser Leu Lys Leu Arg Ile Tyr Phe Leu Glu Glu Arg
37805 20 25 30
37807 Met Gln Gln Lys Tyr Glu Ala Ser Arg Glu Asp Ile Tyr Lys Arg Asn
37808 35 40 45
37810 Ile Glu Leu Lys Val Glu Val Glu Ser Leu Lys Arg Glu Leu Gln Asp
37811 50 55 60
37813 Lys Lys Gln His Leu Asp Lys Thr Trp Ala Asp Val Glu Asn Leu Asn
37814 65 70 75 80
37816 Ser Gln Asn Glu Ala Glu Leu Arg Arg Gln Phe Glu Glu Arg Gln Gln
37817 85 90 95
37819 Glu Thr Glu His Val Tyr Glu Leu Leu Glu Asn Lys Ile Gln Leu Leu
37820 100 105 110
37822 Gln Glu Glu Ser Arg Leu Ala Lys Asn Glu Ala Ala Arg Met Ala Ala
37823 115 120 125
37825 Leu Val Glu Ala Glu Lys Glu Cys Asn Leu Glu Leu Ser Glu Lys Leu
37826 130 135 140
37828 Lys Gly Val Thr Lys Asn Trp Glu Asp Val Pro Gly Asp Gln Val Lys

```

## RAW SEQUENCE LISTING

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DATE: 11/01/2002

TIME: 12:24:31

Input Set : N:\EBONY'S\EP.txt

Output Set: N:\CRF4\11012002\J092900.raw

```

37976      930      935      940
37978 Asp Asp Thr Glu Asp Thr Ser Thr Glu Phe Thr Asp Ser Ile Glu Glu
37979 945      950      955      960
37981 Glu Ala Ala His His Ser His Gln Gln Leu Val Lys Val Ala Leu Glu
37982      965      970      975
37984 Lys Ser Leu Ala Thr Val Glu Thr Gln Asn Pro Ser Phe Ser Pro Pro
37985      980      985      990
37987 Ser Pro Met Gly Gly Asp Ser Asn Arg Cys Leu Gln Glu Glu Met Leu
E--> 37988      995      000      005
37990 His Leu Arg Ala Glu Ile His Gln His Leu Glu Glu Lys Arg Lys Ala
E--> 37991      010      015      020
37993 Glu Glu Glu Leu Lys Glu Leu Lys Ala Gln Ile Glu Glu Ala Gly Phe
E--> 37994 025      030      035      040
37996 Ser Ser Val Ser His Ile Arg Asn Thr Met Leu Ser Leu Cys Leu Glu
E--> 37997      045      050      055
37999 Asn Ala Glu Leu Lys Glu Gln Met Gly Glu Thr Met Ser Asp Gly Trp
E--> 38000      060      065      070
38002 Glu Ile Glu Glu Asp Lys Glu Lys Gly Glu Val Met Val Glu Thr Val
E--> 38003      075      080      085
38005 Val Thr Lys Glu Gly Leu Ser Glu Ser Ser Leu Gln Ala Glu Phe Arg
E--> 38006      090      095      100
38008 Lys Leu Gln Gly Lys Leu Lys Asn Ala His Asn Ile Ile Asn Leu Leu
E--> 38009 105      110      115      120
38011 Lys Glu Gln Leu Val Leu Ser Ser Lys Glu Gly Asn Ser Lys Leu Thr
E--> 38012      125      130      135
38014 Pro Glu Leu Leu Val His Leu Thr Ser Thr Ile Glu Arg Ile Asn Thr
E--> 38015      140      145      150
38017 Glu Leu Val Gly Ser Pro Gly Lys His Gln His Gln Glu Glu Gly Asn
E--> 38018      155      160      165
38020 Val Thr Val Arg Pro Phe Pro Arg Pro Gln Ser Leu Asp Leu Gly Ala
E--> 38021      170      175      180
38023 Thr Phe Thr Val Asp Ala His Gln Gln Leu Asp Asn Gln Ser Gln Pro
E--> 38024 185      190      195      200
38026 Arg Asp Pro Gly Pro Gln Pro Ala Phe Ser Leu Pro Gly Ser Thr Gln
E--> 38027      205      210      215
38029 His Leu Arg Ser Gln Leu Ser Gln Cys Lys Gln Arg Tyr Gln Asp Leu
E--> 38030      220      225      230
38032 Gln Glu Lys Leu Leu Leu Ser Glu Ala Thr Val Phe Ala Gln Ala Asn
E--> 38033      235      240      245
38035 Glu Leu Glu Lys Tyr Arg Val Met Leu Ser Glu Ser Leu Val Lys Gln
E--> 38036      250      255      260
38038 Asp Ser Lys Gln Ile Gln Val Asp Phe Gln Asp Leu Gly Tyr Glu Thr
E--> 38039 265      270      275      280
38041 Cys Gly Arg Ser Glu Asn Glu Ala Glu Arg Glu Glu Thr Thr Ser Pro
E--> 38042      285      290      295
38044 Glu Cys Glu Glu His Asn Ser Leu Lys Glu Met Val Leu Met Glu Gly
E--> 38045      300      305      310
38047 Leu Cys Ser Glu Gln Gly Arg Arg Gly Ser Thr Leu Ala Ser Ser Ser
E--> 38048      315      320      325

```

## RAW SEQUENCE LISTING

DATE: 11/01/2002

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TIME: 12:24:31

Input Set : N:\EBONY'S\EP.txt

Output Set: N:\CRF4\11012002\J092900.raw

```

38197 Ser Ser Ala Ser Ser Thr Pro Gly Ser Asp Ser Val Val Leu Ser Phe
E--> 38198      115      120      125
38200 Ser Phe Ser Gly Leu Gly Leu Asp Thr Ser Pro Val Met Lys Thr Pro
E--> 38201      130      135      140
38203 Pro Lys Leu Glu Gly Asp Ala Thr Asp Gly Ser Phe Ala Asn Lys His
E--> 38204 145      150      155      160
38206 Gly Arg His Val Ile Gly His Ile Asp Asp Tyr Ser Ala Leu Arg Gln
E--> 38207      165      170      175
38209 Gln Ile Ala Glu Gly Lys Leu Leu Val Lys Lys Ile Val Ser Leu Val
E--> 38210      180      185      190
38212 Arg Ser Ala Cys Ser Phe Pro Gly Leu Glu Ala Gln Gly Thr Glu Gly
E--> 38213      195      200      205
38215 Ser Lys Gly Ile His Glu Leu Arg Ser Ser Thr Ser Ala Leu His His
E--> 38216      210      215      220
38218 Ala Leu Glu Glu Ser Ala Ser Leu Leu Thr Met Phe Trp Arg Ala Ala
E--> 38219 225      230      235      240
38221 Leu Pro Ser Thr His Ile Pro Val Leu Pro Gly Lys Gln Gly Glu Ser
E--> 38222      245      250      255
38224 Thr Glu Arg Glu Leu Leu Glu Leu Arg Thr Lys Val Ser Lys Gln Glu
E--> 38225      260      265      270
38227 Gln Leu Leu Gln Ser Thr Thr Glu His Leu Lys Asn Ala Asn Gln Gln
E--> 38228      275      280      285
38230 Lys Glu Ser Met Glu Gln Phe Ile Val Ser Val Thr Arg Thr His Asp
E--> 38231      290      295      300
38233 Val Leu Lys Lys Ala Arg Thr Asn Leu Glu Val Lys Ser Leu Arg Ala
E--> 38234 305      310      315      320
38236 Leu Pro Cys Thr Pro Ala Leu
E--> 38237      325
38840 <210> SEQ ID NO: 296
38841 <211> LENGTH: 2265
38842 <212> TYPE: PRT
38843 <213> ORGANISM: Homo sapiens
38845 <400> SEQUENCE: 296
38846 Met Arg Pro Ala Gly Arg Thr Ser Thr Ser Gly Gly Asp Val Glu Asn
38847 1      5      10      15
38849 Leu Asn Ser Gln Asn Glu Ala Glu Leu Arg Arg Gln Phe Glu Glu Arg
38850      20      25      30
38852 Gln Gln Glu Thr Glu His Val Tyr Glu Leu Leu Glu Asn Lys Ile Gln
38853      35      40      45
38855 Leu Leu Gln Glu Glu Ser Arg Leu Ala Lys Asn Glu Ala Ala Arg Met
38856      50      55      60
38858 Ala Ala Leu Val Glu Ala Glu Lys Glu Cys Asn Leu Glu Leu Ser Glu
38859      65      70      75      80
38861 Lys Leu Lys Gly Val Thr Lys Asn Trp Glu Asp Val Pro Gly Asp Gln
38862      85      90      95
38864 Val Lys Pro Asp Gln Tyr Thr Glu Thr Leu Ala Gln Arg Asp Lys Arg
38865      100      105      110
38867 Ile Glu Glu Leu Asn Gln Ser Leu Ala Ala Gln Glu Arg Leu Val Glu
38868      115      120      125

```

## RAW SEQUENCE LISTING

DATE: 11/01/2002

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TIME: 12:24:31

Input Set : N:\EBONY'S\EP.txt

Output Set: N:\CRF4\11012002\J092900.raw

```

39017 Leu Glu Lys Ser Leu Ala Thr Val Glu Thr Gln Asn Pro Ser Phe Ser
39018          915          920          925
39020 Pro Pro Ser Pro Met Gly Gly Asp Ser Asn Arg Cys Leu Gln Glu Glu
39021          930          935          940
39023 Met Leu His Leu Arg Ala Glu Ile His Gln His Leu Glu Glu Lys Arg
39024 945          950          955          960
39026 Lys Ala Glu Glu Glu Leu Lys Glu Leu Lys Ala Gln Ile Glu Glu Ala
39027          965          970          975
39029 Gly Phe Ser Ser Val Ser His Ile Arg Asn Thr Met Leu Ser Leu Cys
39030          980          985          990
39032 Leu Glu Asn Ala Glu Leu Lys Glu Gln Met Gly Glu Thr Met Ser Asp
E--> 39033          995          000          005
39035 Gly Trp Glu Ile Glu Glu Asp Lys Glu Lys Gly Glu Val Met Val Glu
E--> 39036          010          015          020
39038 Thr Val Val Thr Lys Glu Gly Leu Ser Glu Ser Ser Leu Gln Ala Glu
E--> 39039 025          030          035          040
39041 Phe Arg Lys Leu Gln Gly Lys Leu Lys Asn Ala His Asn Ile Ile Asn
E--> 39042          045          050          055
39044 Leu Leu Lys Glu Gln Leu Val Leu Ser Ser Lys Glu Gly Asn Ser Lys
E--> 39045          060          065          070
39047 Leu Thr Pro Glu Leu Leu Val His Leu Thr Ser Thr Ile Glu Arg Ile
E--> 39048          075          080          085
39050 Asn Thr Glu Leu Val Gly Ser Pro Gly Lys His Gln His Gln Glu Glu
E--> 39051          090          095          100
39053 Gly Asn Val Thr Val Arg Pro Phe Pro Arg Pro Gln Ser Leu Asp Leu
E--> 39054 105          110          115          120
39056 Gly Ala Thr Phe Thr Val Asp Ala His Gln Gln Leu Asp Asn Gln Ser
E--> 39057          125          130          135
39059 Gln Pro Arg Asp Pro Gly Pro Gln Pro Ala Phe Ser Leu Pro Gly Ser
E--> 39060          140          145          150
39062 Thr Gln His Leu Arg Ser Gln Leu Ser Gln Cys Lys Gln Arg Tyr Gln
E--> 39063          155          160          165
39065 Asp Leu Gln Glu Lys Leu Leu Leu Ser Glu Ala Thr Val Phe Ala Gln
E--> 39066          170          175          180
39068 Ala Asn Glu Leu Glu Lys Tyr Arg Val Met Leu Ser Glu Ser Leu Val
E--> 39069 185          190          195          200
39071 Lys Gln Asp Ser Lys Gln Ile Gln Val Asp Phe Gln Asp Leu Gly Tyr
E--> 39072          205          210          215
39074 Glu Thr Cys Gly Arg Ser Glu Asn Glu Ala Glu Arg Glu Glu Thr Thr
E--> 39075          220          225          230
39077 Ser Pro Glu Cys Glu Glu His Asn Ser Leu Lys Glu Met Val Leu Met
E--> 39078          235          240          245
39080 Glu Gly Leu Cys Ser Glu Gln Gly Arg Arg Gly Ser Thr Leu Ala Ser
E--> 39081          250          255          260
39083 Ser Ser Glu Arg Lys Pro Leu Glu Asn Gln Leu Gly Lys Gln Glu Glu
E--> 39084 265          270          275          280
39086 Phe Arg Val Tyr Gly Lys Ser Glu Asn Ile Leu Val Leu Arg Lys Asp
E--> 39087          285          290          295
39089 Ile Glu Asp Leu Lys Ala Gln Leu Gln Asn Ala Asn Lys Val Ile Gln

```

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/10/092,900

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 TIME: 12:24:31

Input Set : N:\EBONY'S\EP.txt  
 Output Set: N:\CRF4\11012002\J092900.raw

```

E--> 39237          085          090          095
      39239 Lys His Gly Arg His Val Ile Gly His Ile Asp Asp Tyr Ser Ala Leu
E--> 39240          100          105          110
      39242 Arg Gln Gln Ile Ala Glu Gly Lys Leu Leu Val Lys Lys Ile Val Ser
E--> 39243          115          120          125
      39245 Leu Val Arg Ser Ala Cys Ser Phe Pro Gly Leu Glu Ala Gln Gly Thr
E--> 39246          130          135          140
      39248 Glu Gly Ser Lys Gly Ile His Glu Leu Arg Ser Ser Thr Ser Ala Leu
E--> 39249 145          150          155          160
      39251 His His Ala Leu Glu Glu Ser Ala Ser Leu Leu Thr Met Phe Trp Arg
E--> 39252          165          170          175
      39254 Ala Ala Leu Pro Ser Thr His Ile Pro Val Leu Pro Gly Lys Gln Gly
E--> 39255          180          185          190
      39257 Glu Ser Thr Glu Arg Glu Leu Leu Glu Leu Arg Thr Lys Val Ser Lys
E--> 39258          195          200          205
      39260 Gln Glu Gln Leu Leu Gln Ser Thr Thr Glu His Leu Lys Asn Ala Asn
E--> 39261          210          215          220
      39263 Gln Gln Lys Glu Ser Met Glu Gln Phe Ile Val Ser Val Thr Arg Thr
E--> 39264 225          230          235          240
      39266 His Asp Val Leu Lys Lys Ala Arg Thr Asn Leu Glu Val Lys Ser Leu
E--> 39267          245          250          255
      39269 Arg Ala Leu Pro Cys Thr Pro Ala Leu
E--> 39270          260          265
40126 <210> SEQ ID NO: 304
40127 <211> LENGTH: 1354
40128 <212> TYPE: PRT
40129 <213> ORGANISM: Homo sapiens
40131 <400> SEQUENCE: 304
40132 Met Asp Leu Glu Ala Ala Lys Asn Gly Thr Ala Trp Arg Pro Thr Ser
40133 1          5          10          15
40135 Ala Glu Gly Asp Phe Glu Leu Gly Ile Ser Ser Lys Gln Lys Arg Lys
40136          20          25          30
40138 Lys Thr Lys Thr Val Lys Met Ile Gly Val Leu Thr Leu Phe Arg Tyr
40139          35          40          45
40141 Ser Asp Trp Gln Asp Lys Leu Phe Met Ser Leu Gly Thr Ile Met Ala
40142          50          55          60
40144 Ile Ala His Gly Ser Gly Leu Pro Leu Met Met Ile Val Phe Gly Glu
40145 65          70          75          80
40147 Met Thr Asp Lys Phe Val Asp Thr Ala Gly Asn Phe Ser Phe Pro Val
40148          85          90          95
40150 Asn Phe Ser Leu Ser Leu Leu Asn Pro Gly Lys Ile Leu Glu Glu Glu
40151          100          105          110
40153 Met Thr Arg Tyr Ala Tyr Tyr Tyr Ser Gly Leu Gly Ala Gly Val Leu
40154          115          120          125
40156 Val Ala Ala Tyr Ile Gln Val Ser Phe Trp Thr Leu Ala Ala Gly Arg
40157          130          135          140
40159 Gln Ile Arg Lys Ile Arg Gln Lys Phe Phe His Ala Ile Leu Arg Gln
40160 145          150          155          160
40162 Glu Ile Gly Trp Phe Asp Ile Asn Asp Thr Thr Glu Leu Asn Thr Arg

```

## RAW SEQUENCE LISTING

DATE: 11/01/2002

PATENT APPLICATION: US/10/092,900

TIME: 12:24:32

Input Set : N:\EBONY'S\EP.txt

Output Set: N:\CRF4\11012002\J092900.raw

```

40310 945          950          955          960
40312 Ser His Ala Phe Ile Tyr Phe Ala Tyr Ala Ala Gly Phe Arg Phe Gly
40313          965          970          975
40315 Ala Tyr Leu Ile Gln Ala Gly Arg Met Ser Asn Ala Leu Ser Phe Asp
40316          980          985          990
40318 Arg Val Phe Thr Ala Ile Ala Tyr Gly Ala Met Ala Ile Gly Glu Thr
E--> 40319          995          000          005
40321 Leu Val Leu Ala Pro Glu Tyr Ser Lys Ala Lys Ser Gly Ala Ala His
E--> 40322          010          015          020
40324 Leu Phe Ala Leu Leu Glu Lys Lys Pro Asn Ile Asp Ser Arg Ser Gln
E--> 40325 025          030          035          040
40327 Glu Gly Lys Lys Pro Leu Ser Gln Asp Thr Cys Glu Gly Asn Leu Glu
E--> 40328          045          050          055
40330 Phe Arg Glu Val Ser Phe Phe Tyr Pro Cys Arg Pro Asp Val Phe Ile
E--> 40331          060          065          070
40333 Leu Arg Gly Leu Ser Leu Ser Ile Glu Arg Gly Lys Thr Val Ala Phe
E--> 40334          075          080          085
40336 Val Gly Ser Ser Gly Cys Gly Lys Ser Thr Ser Val Gln Leu Leu Gln
E--> 40337 090          095          100
40339 Arg Leu Tyr Asp Pro Val Gln Gly Gln Gln Leu Phe Asp Gly Val Asp
E--> 40340 105          110          115          120
40342 Ala Lys Glu Leu Asn Val Gln Trp Leu Arg Ser Gln Ile Ala Ile Val
E--> 40343          125          130          135
40345 Pro Gln Glu Pro Val Leu Phe Asn Cys Ser Ile Ala Glu Asn Ile Ala
E--> 40346          140          145          150
40348 Tyr Gly Asp Asn Ser Arg Val Val Pro Leu Asp Glu Ile Lys Glu Ala
E--> 40349          155          160          165
40351 Ala Asn Ala Ala Asn Ile His Ser Phe Ile Glu Gly Leu Pro Lys Tyr
E--> 40352          170          175          180
40354 Asn Thr Gln Val Gly Leu Lys Gly Ala Gln Leu Ser Gly Gly Gln Lys
E--> 40355 185          190          195          200
40357 Gln Arg Leu Ala Ile Ala Arg Ala Leu Leu Gln Lys Pro Lys Ile Leu
E--> 40358          205          210          215
40360 Leu Leu Asp Glu Ala Thr Ser Ala Leu Asp Asn Asp Ser Glu Lys Val
E--> 40361          220          225          230
40363 Gln Val Val Gln His Ala Leu Asp Lys Ala Arg Thr Gly Arg Thr Cys
E--> 40364          235          240          245
40366 Leu Val Val Thr His Arg Leu Ser Ala Ile Gln Asn Ala Asp Leu Ile
E--> 40367          250          255          260
40369 Val Val Leu His Asn Gly Lys Ile Lys Glu Gln Gly Thr His Gln Glu
E--> 40370 265          270          275          280
40372 Leu Leu Arg Asn Arg Asp Ile Tyr Phe Lys Leu Val Asn Ala Gln Ser
E--> 40373          285          290          295
40375 Ala Ser Lys Gly Arg Thr Thr Ile Val Val Ala His Arg Leu Ser Thr
E--> 40376          300          305          310
40378 Ile Arg Ser Ala Asp Leu Ile Val Thr Leu Lys Asp Gly Met Leu Ala
E--> 40379          315          320          325
40381 Glu Lys Gly Ala His Ala Glu Leu Met Ala Lys Arg Gly Leu Tyr Tyr
E--> 40382          330          335          340

```



RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/10/092,900

DATE: 11/01/2002  
 TIME: 12:24:32

Input Set : N:\EBONY'S\EP.txt  
 Output Set: N:\CRF4\11012002\J092900.raw

```

40384 Ser Leu Val Met Ser Gln Val Met Leu Met
E--> 40385 345 350
45271 <210> SEQ ID NO: 348
45272 <211> LENGTH: 1033
45273 <212> TYPE: PRT
45274 <213> ORGANISM: Homo sapiens
45276 <400> SEQUENCE: 348
45277 Met Gly Pro Pro Phe Ser Thr Arg Glu Thr Ser Thr Leu Cys Glu Pro
45278 1 5 10 15
45280 Lys Gly Arg Arg Leu Arg Pro Arg Gln Arg Arg Asn Gln Glu Asn Val
45281 20 25 30
45283 Thr Lys Asn Ser Leu Lys Leu Pro Gly Pro Leu Gln Glu Gln Thr Gly
45284 35 40 45
45286 Leu Gly Pro Pro His Leu Gly Ser Glu Leu Gly Leu His Gly Gly Asp
45287 50 55 60
45289 Thr Trp Asp Tyr Lys Ser His Val Met Thr Lys Phe Ala Glu Glu Glu
45290 65 70 75 80
45292 Asp Val Arg Arg Ser Phe Glu Asn Thr Ala Ala Asp Trp Pro Glu Met
45293 85 90 95
45295 Gln Thr Leu Ala Gly Ala Phe Asp Ser Asp Arg Trp Gly Phe Arg Pro
45296 100 105 110
45298 Arg Thr Val Val Leu His Gly Lys Ser Gly Ile Gly Lys Ser Ala Leu
45299 115 120 125
45301 Ala Arg Arg Ile Val Leu Cys Trp Ala Gln Gly Gly Leu Tyr Gln Gly
45302 130 135 140
45304 Met Phe Ser Tyr Val Phe Phe Leu Pro Val Arg Glu Met Gln Arg Lys
45305 145 150 155 160
45307 Lys Glu Ser Ser Val Thr Glu Phe Ile Ser Arg Glu Trp Pro Asp Ser
45308 165 170 175
45310 Gln Ala Pro Val Thr Glu Ile Met Ser Arg Pro Glu Arg Leu Leu Phe
45311 180 185 190
45313 Ile Ile Asp Gly Phe Asp Asp Leu Gly Ser Val Leu Asn Asn Asp Thr
45314 195 200 205
45316 Lys Leu Cys Lys Asp Trp Ala Glu Lys Gln Pro Pro Phe Thr Leu Ile
45317 210 215 220
45319 Arg Ser Leu Leu Arg Lys Val Leu Leu Pro Glu Ser Phe Leu Ile Val
45320 225 230 235 240
45322 Thr Val Arg Asp Val Gly Thr Glu Lys Leu Lys Ser Glu Val Val Ser
45323 245 250 255
45325 Pro Arg Tyr Leu Leu Val Arg Gly Ile Ser Gly Glu Gln Arg Ile His
45326 260 265 270
45328 Leu Leu Leu Glu Arg Gly Ile Gly Glu His Gln Lys Thr Gln Gly Leu
45329 275 280 285
45331 Arg Ala Ile Met Asn Asn Arg Glu Leu Leu Asp Gln Cys Gln Val Pro
45332 290 295 300
45334 Ala Val Gly Ser Leu Ile Cys Val Ala Leu Gln Leu Gln Asp Val Val
45335 305 310 315 320
45337 Gly Glu Ser Val Ala Pro Phe Asn Gln Thr Leu Thr Gly Leu His Ala
45338 325 330 335

```

## RAW SEQUENCE LISTING

DATE: 11/01/2002

PATENT APPLICATION: US/10/092,900

TIME: 12:24:32

Input Set : N:\EBONY'S\EP.txt

Output Set: N:\CRF4\11012002\J092900.raw

```

45413          725          730          735
45415 Asn Lys Val Thr Asp Gln Gly Val Met Pro Leu Ser Asp Ala Leu Arg
45416          740          745          750
45418 Val Ser Gln Cys Ala Leu Gln Lys Leu Ile Leu Glu Asp Cys Gly Ile
45419          755          760          765
45421 Thr Ala Thr Gly Cys Gln Ser Leu Ala Ser Ala Leu Val Ser Asn Arg
45422          770          775          780
45424 Ser Leu Thr His Leu Cys Ser Leu Ser Asn Asn Ser Leu Gly Asn Glu Gly
45425 785          790          795          800
45427 Val Asn Leu Leu Cys Arg Ser Met Arg Leu Pro His Cys Ser Leu Gln
45428          805          810          815
45430 Arg Leu Met Leu Asn Gln Cys His Leu Asp Thr Ala Gly Cys Gly Phe
45431          820          825          830
45433 Leu Ala Leu Ala Leu Met Gly Asn Ser Trp Leu Thr His Leu Ser Leu
45434          835          840          845
45436 Ser Met Asn Pro Val Glu Asp Asn Gly Val Lys Leu Leu Cys Glu Val
45437          850          855          860
45439 Met Arg Glu Pro Ser Cys His Leu Gln Asp Leu Glu Leu Val Lys Cys
45440 865          870          875          880
45442 His Leu Thr Ala Ala Cys Cys Glu Ser Leu Ser Cys Val Ile Ser Arg
45443          885          890          895
45445 Ser Arg His Leu Lys Ser Leu Asp Leu Thr Asp Asn Ala Leu Gly Asp
45446          900          905          910
45448 Gly Gly Val Ala Ala Leu Cys Glu Gly Leu Lys Gln Lys Asn Ser Val
45449          915          920          925
45451 Leu Thr Arg Leu Gly Leu Lys Ala Cys Gly Leu Thr Ser Asp Cys Cys
45452          930          935          940
45454 Glu Ala Leu Ser Leu Ala Leu Ser Cys Asn Arg His Leu Thr Ser Leu
45455 945          950          955          960
45457 Asn Leu Val Gln Asn Asn Phe Ser Pro Lys Gly Met Met Lys Leu Cys
45458          965          970          975
45460 Ser Ala Phe Ala Cys Pro Thr Ser Asn Leu Gln Ile Ile Gly Leu Trp
45461          980          985          990
45463 Lys Trp Gln Tyr Pro Val Gln Ile Arg Lys Leu Leu Glu Glu Val Gln
E--> 45464          995          000          005
45466 Leu Leu Lys Pro Arg Val Val Ile Asp Gly Ser Trp His Ser Phe Asp
E--> 45467          010          015          020
45469 Glu Asp Asp Arg Tyr Trp Trp Lys Asn
E--> 45470 025          030
52052 <210> SEQ ID NO: 768
52053 <211> LENGTH: 22
52055 <212> TYPE: DNA
52056 <213> ORGANISM: Artificial Sequence
52058 <220> FEATURE:
W--> 52059 <221> NAME/KEY: [Description of Artificial Sequence: [Reverse Primer] belongs in 223
W--> 52061 <223> OTHER INFORMATION:
W--> 52061 <400> 768
52062 cagagcttca cgaagttctt ct
E--> 52066 (875) -delete

```

22

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/092,900

DATE: 11/01/2002

TIME: 12:24:32

Input Set : N:\EBONY'S\EP.txt

Output Set: N:\CRF4\11012002\J092900.raw

E--> 52068 (1) -delete

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/092,900

DATE: 11/01/2002  
TIME: 12:24:33

Input Set : N:\EBONY'S\EP.txt  
Output Set: N:\CRF4\11012002\J092900.raw

Use of <220> Feature(NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings.  
Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32) (Sec.1.823 of new Rules)

Seq#:357,358,359,360,361,362,363,364,365,366,367,368,369,370,371,372,373,374  
Seq#:375,376,377,378,379,380,381,382,383,384,385,386,387,388,389,390,391,392  
Seq#:393,394,395,396,397,398,399,400,401,402,403,404,405,406,407,408,409,410  
Seq#:411,412,413,414,415,416,417,418,419,420,421,422,423,424,425,426,427,428  
Seq#:429,430,431,432,433,434,435,436,437,438,439,440,441,442,443,444,445,446  
Seq#:447,448,449,450,451,452,453,454,455,456,457,458,459,460,461,462,463,464  
Seq#:465,466,467,468,469,470,471,472,473,474,475,476,477,478,479,480,481,482  
Seq#:483,484,485,486,487,488,489,490,491,492,493,494,495,496,497,498,499,500  
Seq#:501,502,503,504,505,506,507,508,509,510,511,512,513,514,515,516,517,518  
Seq#:519,520,521,522,523,524,525,526,527,528,529,530,531,532,533,534,535,536  
Seq#:537,538,539,540,541,542,543,544,545,546,547,548,549,550,551,552,553,554  
Seq#:555,556,557,558,559,560,561,562,563,564,565,566,567,568,569,570,571,572  
Seq#:573,574,575,576,577,578,579,580,581,582,583,584,585,586,587,588,589,590  
Seq#:591,592,593,594,595,596,597,598,599,600,601,602,603,604,605,606,607,608  
Seq#:609,610,611,612,613,614,615,616,617,618,619,620,621,622,623,624,625,626  
Seq#:627,628,629,630,631,632,633,634,635,636,637,638,639,640,641,642,643,644  
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Seq#:663,664,665,666,667,668,669,670,671,672,673,674,675,676,677,678,679,680  
Seq#:681,682,683,684,685,686,687,688,689,690,691,692,693,694,695,696,697,698  
Seq#:699,700,701,702,703,704,705,706,707,708,709,710,711,712,713,714,715,716  
Seq#:717,718,719,720,721,722,723,724,725,726,727,728,729,730,731,732,733,734  
Seq#:735,736,737,738,739,740,741,742,743,744,745,746,747,748,749,750,751,752  
Seq#:753,754,755,756,757,758,759,760,761,762,763,764,765,766,767,768